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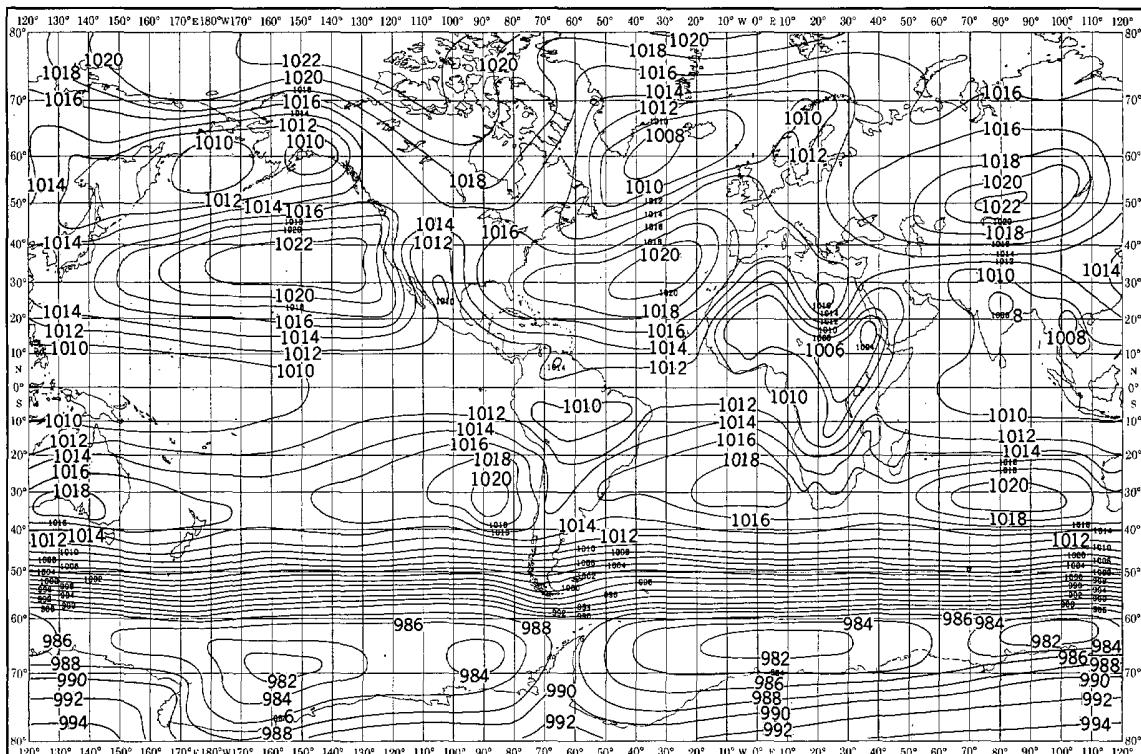


# MONTHLY CLIMATIC DATA FOR THE WORLD

PREPARED IN COOPERATION WITH THE  
WORLD METEOROLOGICAL ORGANIZATION

APRIL

SEA LEVEL PRESSURE (MBS) - MEANS



Explanation on back cover

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ASHEVILLE, NORTH CAROLINA

## PREFACE

Monthly Climatic Data for the World (MCDW) is a publication of monthly summary climatic data from around the world. Data are prepared by Members of the World Meteorological Organization (WMO) for selected stations and exchanged monthly via international telecommunications under provisions of the WMO Technical Regulations, WMO Publications No. 306 (Manual on Codes) and No. 386 (Manual on the Global Telecommunications System). Data used in MCDW are translated from CLIMAT, CLIMAT SHIP, CLIMAT TEMP and CLIMAT TEMP SHIP codes. WMO No. 9 (Weather Reporting), Vol. A - Stations indicates stations that report in these codes. MCDW is sponsored by the WMO in accordance with Resolution 27 of the Second World Meteorological Congress, 1955. Percent of average sunshine was authorized during the Fourth Session (Stockholm 1965) of the WMO Commission for Climatology and recorded in the General Summary of the Report - WMO NO.177.RP.65. It is published by the United States National Oceanic and Atmospheric Administration.

## REFERENCE NOTES

Names of countries (areas) and stations are those used in WMO Publication No. 9, Vol. A - Stations, except that long names may be shortened. Only those stations authorized as contributors by the WMO in VOLUME A are published. "Means" and "totals" mentioned below are monthly summary means and totals. Units abbreviations: celsius = °C, degrees = °, geopotential meters = gpm, meters = m, millibars (hectopascals) = mb, millimeters = mm, minutes = ', percent = %.

The long term surface data AVERAGES required for these tables were calculated for 1951 - 1980 from data received at the National Climatic Data Center during those years. Six years of data were considered to be the minimum for calculations.

Departures are differences between data and the AVERAGES for that month. Precipitation departure of "T" or "-T" indicates a difference less than 0.5 mm from AVERAGE.

Provisional upper air normals, although not published in this bulletin, can be obtained from WMO Pub. No. 170. A description of procedures used by Members appeared in Monthly Climatic Data for the World, 1967 Supplement -- computation of CLIMAT TEMP values.

Late reports and corrections are published when received, except that data more than five years old are not published. The Corrections sections include corrections to past data. In these, "D" indicates the data should be deleted. Some late reports of pre-1987 data appeared in the Corrections sections during the 1987 Data Year.

The data received by the publisher often contain errors. A reasonable effort is made to correct errors; but some may appear in the publication, especially if the errors are subtle or were part of a large group of errors.

The station list appears at the back of the publication. In January and July, all CLIMAT (C) and CLIMAT TEMP (T) stations from WMO Pub. No. 9, Vol. A are listed. This is the complete published station set. In other months, the list contains only those stations from which data no more than two months old have been recently received.

Included in this publication, on an interim basis, are a group of Antarctic and USA stations that are not in WMO No. 9. These stations will be sponsored as CLIMATE and/or CLIMAT TEMP stations in the near future.

## SURFACE DATA TABLES

DAYS OBS.: The number of days on which observations were taken. Column will be blank if days are not reported.  
PRESSURE: Mean station pressure at station level and sea level in tenths of mb. In the sea level pressure column, Y or Z indicates the number is the mean height in gpm of the 850 mb or 700 mb pressure surface, respectively.  
TEMPERATURE: Mean temperature and departure from AVERAGE value in degrees C. "S" indicates sea surface temperature.  
DAYS 1 MM: The number of days on which precipitation was 1 mm or more.  
PRECIPITATION: Total precipitation and departure from AVERAGE in mm. "T" indicates an amount less than 0.5 mm.  
QUINTILE: Frequency group of precipitation totals. Group numbers are 0 - 6. Groups 0 and 6 are for totals less than and greater than any recorded in the 1951 - 1980 reference period.  
% OF AV.: Sunshine total hours expressed as a percentage of long-term average. Currently, average period is 1931-60.

In January 1987, the "Sunshine" column was changed to include both total sunshine in hours and the percentage of long-term average.

## UPPER AIR DATA TABLES

HEIGHT: Mean height of pressure surfaces in gpm. Asterisk (\*) indicates station elevation.  
VECTOR WIND: Direction of mean vector wind in degrees, speed in mps. A wind speed value of 0 is a speed < 0.5 mps.  
When missing days equals 9, nine or more days of wind data are missing.  
STEADINESS: Ratio of mean vector wind speed to mean scalar wind speed.  
OB: Observation time code: 1 = 0000 GMT, 2 = 1200 GMT, 3 = 0000 and 1200 GMT, / = other hours.

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## PUBLICATION STAFF

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STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE					
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAYS 1 MM	TOTAL	MM	DEPARTURE				
<b>EUROPE</b>																		
<b>NORWAY</b>																		
01001 JAN MAYEN	7056N	00840W	9	30	1011.2	1012.4	-1.8	2.0	4.8	1.2	13	69	25	5				
01008 SVALBARD LUFTHAVN	7815N	01528E	29	30	1012.9	1016.7	-7.9	3.7	2.7		5	16						
01025 TROMSO/LANGNES	6941N	01855E	10	30	1013.4	1014.5	3.7	2.9	6.0	1.4	4	21	-41	1				
01028 BJORNØYA	7431N	01901E	14	30	1012.6	1014.4	-1.6	3.8	5.0	1.4	8	32	13	5				
01098 VARDØ	7022N	03106E	15	30	1015.2	1016.9	2.7	3.8	6.1	1.5	7	42	15	5				
01152 BODØ VI	6716N	01422E	13	30	1012.6	1014.1	5.2	3.0	6.3	1.2	7	43	-10	2				
01241 ORLAND III	6342N	00936E	7	30	1011.8	1012.9	6.2	2.1	7.2	0.8	7	19	-41	0				
01317 BERGEN/FLORIDA	6023N	00520E	36	30	1007.2	1011.6	6.7	0.8	6.9	-0.1	12	60	-91	1				
01384 OSLO/GARDERMOEN	6012N	01105E	204	30	988.3	1013.4	3.3	0.6	5.7	0.5	15	82	33	5				
01415 STAVANGER/SOLA	5853N	00538E	9	30	1010.6	1011.6	5.8	0.4	6.6	0.1	8	49	-1	3				
<b>SWEDEN</b>																		
02080 KARESUANDO	6827N	02230E	327		977.5	1017.3	0.4	4.4	5.0	1.2	6	36	14	5				
02128 GUNNARN	6501N	01741E	281		983.2	1017.1	0.6		5.0		10	73	6					
02196 HAPARANDA	6550N	02409E	6		1016.9	1017.7	1.5	2.5	5.3	0.8	8	32	2	4				
02226 ÖSTERSUND/FROSÖN	6311N	01430E	366		972.5	1016.3	1.7	0.5	5.2	0.3	8	36	5	4				
02361 HARNOSAND	6238N	01757E	8	30	1014.8	1016.1	2.5	0.6	6.1	0.8	10	113	68	5				
02418 KARLSTAD FLYGPLATS	5922N	01328E	55		1007.1	1013.5	5.3	1.5	6.8	1.1	7	41	4	3				
02464 STOCKHOLM/BROMMA	5921N	01757E	11		1012.6	1014.0	5.5	1.2	6.6	0.7	5	23	-9	2				
02512 GOTEBORG/SAVE	5747N	01153E	53		1005.8	1012.4	6.0	0.5	6.6	0.0	7	37	-4	3				
02550 JONKOPING FLYGPLATS	5746N	01405E	232		984.7	1013.3	5.1	1.0	6.7	0.5	5	15	-19	1				
02590 VISBY FLYGPLATS	5740N	01821E	47		1008.1	1014.0	5.0	1.2	7.5	1.2	8	16	-14	2				
<b>FINLAND</b>																		
02801 KILPISJÄRVI	6903N	02047E	476		957.7	1016.7	-1.5		4.8		6	29	14					
02805 KEVO	6945N	02702E	101		1005.0	1017.6	1.5		5.3		7	35		103				
02836 SODANKYLA	6722N	02639E	179	30	996.4	1018.9	1.5	3.9	5.2	1.4	8	22	-3	3				
02869 KUUSAMO	6558N	02911E	263	30	987.6	1020.4	1.5	4.0	5.4		7	35	3	3				
02875 OULU	6456N	02522E	15		1016.4	1018.3	3.9	3.8	6.5		3	17	-5	3				
02897 KAJAANI	6417N	02741E	136		1002.4	1019.3	3.5	3.7	6.4	1.9	6	32	5	3				
02911 VAASA	6303N	02146E	4		1015.1	1016.2	5.3	3.9	7.1	1.9	6	17	-10	2				
02929 JOENSUU	6240N	02938E	117		1004.8	1019.4	3.8	3.1	5.5		4	23	-13	2				
02935 JYVÄSKYLÄ	6224N	02541E	145		999.4	1017.5	3.6	2.5	6.3	1.4	6	39	7	4				
02942 NIINISALO	6151N	02228E	136		999.6	1016.4	4.7		6.4		7	25		98				
02958 LAPPEENRANTA	6105N	02809E	106		1004.8	1018.0	5.0	2.9	6.6		7	22	-12	2				
02963 JOKIOINEN	6049N	02330E	103		1003.5	1016.3	5.3	3.2	7.0	1.5	6	40	9	4				
02972 TURKU	6031N	02216E	59		1008.6	1015.9	5.5	2.9	6.7	1.1	8	42	6	4				
02974 HELSINKI-VANTAA	6019N	02458E	56		1009.6	1016.6	5.5	2.9	7.0	1.5	7	41	0	3				
<b>UNITED KINGDOM</b>																		
03005 LERWICK	6008N	00111W	84		1001.3	1011.4	5.4	0.2	7.1	-0.2	9	62	-7	3				
03026 STORNOWAY	5813N	00619W	13		1008.9	1010.7	5.6	-1.1	7.3	-1.1	12	51	-16	2				
03091 ABERDEEN/DYCE	5712N	00213W	65		1003.0	1010.9	5.5	-0.9	7.3	-0.2	13	54	4	3				
03100 TIREE	5630N	00653W	12		1009.3	1010.4	6.0	-1.5	7.6	-1.2	14	78	18	4				
03160 EDINBURGH AIRPORT	5557N	00321W	41		1006.0	1010.5	6.1	-1.1	7.1	-0.6	8	36	-3	2				
03162 ESKDALEMUIR	5519N	00312W	242		981.0	1010.6	4.4	-1.4	6.7	-0.5	15	69	-17	2				
03257 LEEMING	5418N	00132W	40		1006.5	1010.5	6.2	-1.3	7.4	-0.4	13	51	17	5				
03302 VALLEY	5315N	00432W	11		1008.5	1009.9	7.5	-0.7	7.9	-0.5	12	64	13	4				
03334 MANCHESTER AIRPORT	5321N	00216W	78		1000.7	1010.0	6.4	-1.7	7.1	-0.7	16	78	28	5				
03377 WADDINGTON	5310N	00031W	70		1001.3	1010.0	6.1	-1.6	7.5	-0.6	16	82	43	6				
03534 BIRMINGHAM/AIRPORT	5227N	00144W	99		998.0	1010.1	6.4	-1.3	7.4	-0.4	15	88	44	5				
03715 CARDIFF-WALES AIRPORT	5124N	00321W	67		1001.9	1009.9	6.6	-1.5	7.7	-0.6	13	60	6	4				
03776 LONDON/GATWICK AIRPORT	5109N	00011W	62		1002.6	1009.7	7.0	-1.0	7.7	-0.5	16	84	28	5				
03827 PLYMOUTH/MOUNT BATTEN	5021N	00407W	27		1006.5	1009.9	7.5	-1.4	8.3	-0.6	11	82	25	5				
03862 BOURNEMOUTH AIRPORT	5047N	00150W	11		1008.5	1009.9	6.7	-1.6	8.2	-0.2	12	68	16	4				
03917 BELFAST/ALDERGROVE AIRPORT	5439N	00613W	81		1001.6	1010.1	6.1	-1.5	7.3	-0.8	13	80	32	5				
<b>IRELAND</b>																		
03953 VALENTIA OBSERVATORY	5156N	01015W	14		1009.1	1010.8	7.2	-1.9	8.2	-0.9	14	95	16	4				
03955 CORK AIRPORT	5151N	00829W	162	30	990.9	1010.7	6.4	-1.6	7.4	-1.0	12	61	-7	3				
03962 SHANNON AIRPORT	5242N	00855W	20		1008.3	1010.7	7.5	-1.4	7.6	-1.0	11	58	1	3				
03969 DUBLIN AIRPORT	5326N	00615W	85		999.6	1010.0	6.9	-1.1	7.5	-0.7	17	79	32	5				
03976 BELMULLET	5414N	01000W	10		1009.3	1010.5	6.8	-1.5	7.8	-1.1	18	62	5	3				
03980 MALIN HEAD	5522N	00720W	25		1007.0	1010.1	6.8	-1.0	7.7	-0.7	13	115	57	5				

EUROPE-ICELAND

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE				
					MEAN mb	STATION mb	MEAN SEA LEVEL	MEAN °C	DEPARTURE °C	MEAN mb	DEPARTURE mb	DAYS 1 MM TOTAL	DEPARTURE mm	QUINTILE	TOTAL hr	% OF AV.	
<b>EUROPE</b>	0 °	0 °	±														
<b>ICELAND</b>																	
04018 KEFLAVIK	6358N	02236W	54	30	1001.8	1008.5	1.7	-1.7	5.6	-1.4	11	118	41	5			
04030 REYKJAVIK	6408N	02154W	61	30	1001.4	1009.0	1.5	-1.8	5.2	-1.6	13	122	65	6	138		
04063 AKUREYRI	6541N	01805W	27	30	1007.4	1010.9	0.2	-1.5	5.2	-0.5	10	66	36	5			
04082 HJARDARNES	6415N	01511W	12	30	1008.2	1009.5	2.7	-0.5	5.8	-0.5	15	146	52	5			
<b>DENMARK (GREENLAND)</b>																	
04209 UPERNAVIK AWS	7247N	05610W	61		1009.9	1018.2	-12.4		1.8								
04220 EGEDESMINDE	6842N	05245W	47		1010.3	1016.6	-10.9	-1.8	2.1	-0.3	5	14	0	3			
04250 GODTHAB	6410N	05145W	48		1009.9	1013.4	-4.3	-1.2	4.0	0.1	5	18	-19	2			
04312 NORD AOS	8136N	01640W	34		1016.1	1021.1	-22.6		0.7		2	5					
04320 DANMARKSHAVN	7646N	01840W	12		1018.1	1019.7	-16.6	0.7	1.1	0.1	5	15	5	4			
04340 KAP TOBIN	7025N	02158W	42		1011.2	1016.7	-10.3	1.6	1.8	0.1	8	35	7	4			
04360 ANGMAGSSALIK	6536N	03738W	52		1007.7	1012.3	-4.5	-0.7	3.4	-0.1	9	56	-7	3			
04390 PRINS CHRISTIAN SUND	6002N	04307W	76		1005.6	1008.0	-2.1	-1.4	3.7	-0.8							
<b>DENMARK &amp; FAROE IS.</b>																	
06011 THORSHAVN	6201N	00646W	39		1006.5	1011.3	4.6	-0.4	8.0	0.7	10	45	-53	1	134		
06030 ALBORG	5706N	00952E	3		1011.3	1011.7	5.8	0.3	6.8	-0.3	9	26	-12	2			
06186 KOBENHAVN/LANDBOHOJSKOLEN	5541N	01233E	9		1011.1	1011.7	7.5	1.1	7.5	0.1	8	36	-11	3			
06190 RONNE	5504N	01445E	16		1010.1	1012.1	7.0		7.4		6	23	2				
<b>NETHERLANDS</b>																	
06260 DE BILT	5206N	00511E	4	30	1009.2	1009.7	6.9	-1.1	7.6	-0.4	10	73	21	4	64		
<b>BELGIUM</b>																	
06447 UCCLÉ	5048N	00421E	104	30	996.8	1009.0	7.6	-1.2	8.2	0.1	16	93	40	5	65		
<b>LUXEMBOURG</b>																	
06590 LUXEMBOURG/LUXEMBOURG	4937N	00613E	379		963.4	1008.6	6.3	-1.9	6.3	-1.1	17	176	127	6	90	50	
<b>SWITZERLAND LIECHTENSTEIN</b>																	
06660 ZURICH (TOWN/VILLE)	4723N	00834E	569		943.4	1010.4	7.3	-0.8	7.8	0.6	17	118	27	5	86	50	
06680 SAENTIS	4715N	00921E	2500		741.5	2951	Z	-4.5	0.2	3.7	0.1	19	295	110	5	92	58
06700 GENEVE-COINTRIN	4615N	00608E	416		960.9	1010.3	8.1	-0.9	8.2	1.1	15	93	35	5	79	40	
06770 LUGANO	4600N	00858E	276		976.7	1009.6	9.8	-1.5	9.2	0.8	21	546	399	6	99	53	
<b>FRANCE</b>																	
07024 CHERBOURG	4939N	00128W	138		992.4	1009.2	7.2	0.0	9.3	0.8	13	104	51	5	167		
07110 BREST/GUIPAVAS	4827N	00425W	103		997.1	1009.7	8.2	-0.6	9.0	0.0	15	109	39	5	183	94	
07150 PARIS/LE BOURGET	4858N	00227E	65		1001.8	1009.7	8.3	-1.3	8.8	0.3	13	98	62	5	118	65	
07180 NANCY/ESSEY	4841N	00613E	217		983.9	1010.1	7.6	-1.1	8.4	0.5	18	129	85	6	88	54	
07190 STRASBOURG	4833N	00738E	154		991.1	1009.7	8.6	-0.9	9.8	1.8	15	141	98	6	80	47	
07222 NANTES	4710N	00136W	27		1006.2	1009.5	9.3	-0.9	9.0	-0.4	12	84	38	5	150	78	
07255 BOURGES	4704N	00222E	166		989.1	1009.2	8.4	-1.5	8.8	0.5	17	96	49	5	122	67	
07280 DIJON	4716N	00505E	227		982.8	1010.1	8.2	-1.7	9.7	1.7	19	149	106	6	105	50	
07434 LIMOGES	4552N	00111E	402		962.3	1010.2	7.5	-1.3	7.9	0.2	19	140	61	5	107	55	
07480 LYON/BRON	4543N	00457E	201		985.8	1010.0	9.7	-0.6	9.2	0.7	15	168	114	6	114	56	
07510 BORDEAUX/MERIGNAC	4450N	00042W	61									20	164	105	6	130	64
07630 TOULOUSE/BLAGNAC	4338N	00122E	153		992.6	1011.0	9.8	-1.1	10.0	0.5	14	111	55	6	131	64	
07645 NIMES/COURBESSAC	4352N	00424E	62		1002.1	1009.6	11.8	-0.8	9.5	0.9	9	88	35	5	202	82	
07650 MARSEILLE/MARIGNANE	4327N	00513E	36		1004.5	1008.9	12.8	-0.1	10.2	0.9	6	59	17	4	208	82	
07690 NICE	4339N	00712E	10		1007.0	1008.2	13.0	-0.1	11.9	1.5	11	183	118	6	182	75	
07747 PERPIGNAN	4244N	00252E	48		1005.2	1011.0	12.3	-1.0	9.7	0.4	9	74	27	5	194	76	
<b>SPAIN</b>																	
08001 LA CORUNA	4322N	00825W	67		1005.6	1013.7	11.6	-0.4	10.4	-0.6	18	116	38	5	145	76	
08141 VALLADOLID	4139N	00446W	735		926.5	1012.7	8.6	-1.3	8.0	0.7	13	57	21	5	229	99	
08160 ZARAGOZA/AEROPUERTO	4140N	00101W	258		980.7	1011.3	11.8	-1.1	8.7		9	30	-2	3	183	45	
08181 BARCELONA/AEROPUERTO	4117N	00204E	6		1008.5	1009.3	12.9		10.3		5	55	4	3	203	95	
08222 MADRID	4025N	00341W	667		936.0	1013.0	11.0	-1.2	8.0	0.0	10	52	4	3	201	86	
08306 PALMA DE MALLORCA/SON SAN J.	3933N	00244E	8		1009.8	1010.6	13.7	-1.9	11.9		13	30	-98	0	223	105	
08314 MENORCA/MAHON	3952N	00414E	82		1000.4	1010.2	13.9	0.2	11.6	0.7	9	90	48	5	228	109	
08329 BADAJOZ	3853N	00658W	195		993.0	1013.8	12.9	-1.7	9.7	-0.8	8	68	27	4	210	83	
08359 ALICANTE	3822N	00030W	82		1002.2	1011.9	15.7	-0.1	10.5	-0.5	4	27	-11	2	264	104	
08390 SEVILLA/TABLADA	3722N	00600W	14		1011.9	1013.6	15.2	-0.9	11.5	0.0	8	79	27	4	248	106	

EUROPE-SPAIN

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE		
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAYS 1 MM	TOTAL	DEPARTURE	QUINTILE	TOTAL	% OF AV.
EUROPE	0°	0°	n		mb	mb	0°C	0°C	mb	mb	mm	mm	hr	%		
SPAIN																
08487 ALMERIA/AEROPUERTO	3651N	00223W	21	1009.2	1011.7	16.5		12.7			4	48	5	297	115	
GIBRALTAR																
08495 GIBRALTAR	3609N	00521W	5	1014.7	1015.1	15.6	-0.7	12.8	0.0	8	49	-11	3	251	101	
PORTUGAL																
08506 HORTA (ACORES)	3831N	02838W	62	1015.7	1023.2	15.1		12.4		6	45		3	196	130	
08513 PONTA DELGADA (ACORES)	3745N	02540W	36	1018.9	1023.3	15.0		12.2		8	36		2	186	135	
08515 SANTA MARIA (ACORES)	3658N	02510W	100	1011.3	1023.5	15.1	-0.2	13.9	1.4	2	19	-23	2			
08535 LISBOA	3843N	00909W	95	1005.3	1016.7	13.8		11.3		11	104		5	199	75	
08546 PORTO/SERRA DO PILAR	4108N	00836W	100	1002.3	1014.2	11.6	-2.0	10.5	-0.7	18	102	16	4	158	70	
GERMAN DEMOCRATIC REPUBLIC																
09170 WARNEMUENDE	5411N	01205E	10	1009.9	1011.1	7.5	1.3	8.1	0.5	10	44	3	4	185	95	
09184 GREIFSWALD	5406N	01324E	6	1010.5	1011.3	7.8	1.6	8.0	0.5	6	26	-13	2	171	90	
09379 POTSDAM	5223N	01304E	100	998.3	1010.4	8.2	0.4	7.6	0.4	6	53	8	4	141	75	
09393 LINDENBERG	5213N	01407E	112	996.7	1010.3	8.4	0.7	8.1	0.8	8	67	29	5	133	70	
09469 LEIPZIG-SCHKEUDITZ	5125N	01214E	133	992.8	1010.0	8.1	0.1	7.9	0.1	10	56	15	4	107	65	
09488 DRESDEN-KLOTZSCHE	5108N	01347E	226	982.8	1010.2	8.6	1.8	7.8	0.4	10	68	15	4	102	60	
09499 GOERLITZ	5110N	01457E	238	981.4	1010.3	8.3	1.0	8.0	0.6	11	60	11	4	120	65	
09548 MEININGEN	5034N	01023E	453	955.4	1009.8	6.0		7.4		9	52			81		
09554 ERFURT-BINDERSLEBEN	5059N	01058E	323	971.2	1010.2	7.0	-0.2	7.3	0.1	11	48	6	4	91	55	
09578 FICHTELBERG	5026N	01257E	1215	870.3	1404	Y	1.9	0.9	6.1	0.6	12	84	1	3	92	60
GERMANY, FEDERAL REPUBLIC OF																
10035 SCHLESWIG	5432N	00933E	48	1005.2	1011.1	6.2	0.2	7.7	0.4	14	77	22	4	147	77	
10147 HAMBURG-FUHLSBUETTEL	5338N	01000E	16	1008.6	1010.6	7.3	0.2	7.8	0.4	9	72	25	5	111	60	
10203 EMDEN-HAFEN	5321N	00712E	12	1008.8	1010.3	6.5	-0.6	8.0	0.3	15	61	12	4	125	70	
10338 HANNOVER	5228N	00942E	54	1003.7	1010.3	7.5	-0.2	7.9	0.3	10	45	-3	3	119	65	
10384 BERLIN-TEMPELHOF	5228N	01324E	49	1004.5	1010.4	9.0	0.5	7.9	0.8	6	49	9	4	130		
10410 ESSEN	5124N	00658E	161	990.1	1009.6	7.1	-1.4	7.9	0.4	16	104	42	5	100	58	
10438 KASSEL	5118N	00927E	233	981.6	1009.7	7.2	-1.1	7.8	0.6	9	45	-7	3	54		
10628 GEISENHEIM	4959N	00757E	120	994.7	1009.2	8.4	-1.2	8.2	0.8	11	75	40	6	49		
10739 STUTTGART-SCHNARRENBERG	4850N	00912E	311	972.2	1009.3	8.1	-0.8	8.3	1.0	15	119	71	5	78		
10763 NUERNBERG	4930N	01105E	312	972.1	1009.4	7.9	-0.1	7.9	0.7	13	69	25	5	51		
10866 MUENCHEN-RIEM	4808N	01142E	529	946.4	1008.9	7.6	0.1	8.0	0.8	12	118	45	5	85	50	
10929 KONSTANZ	4741N	00911E	447	956.3	1009.3	7.8		8.3		15	138	6	89	55		
10961 ZUGSPITZE	4725N	01059E	2962	699.1	2952	Z	-7.0	0.5	3.4	0.3	18	130	-79	1	101	62
AUSTRIA																
11028 ST. POELTEN	4812N	01537E	282	976.0	1010.4	10.0	1.2	8.8	1.3	12	135	75	5	138	80	
11035 WIEN/HOHE WARTE	4815N	01622E	209	983.8	1009.1	10.8	1.0	9.3	1.4	11	88	34	5	140	76	
11120 INNSBRUCK-FLUGHAFEN	4716N	01121E	598	937.8	1008.4	8.9	0.2	7.4	0.8	14	96	30	5	114	70	
11146 SONNBLICK	4703N	01257E	3107	686.4	2949	Z	-7.0	1.5	3.3	0.4	23	171	-8	3	59	42
11150 SALZBURG-FLUGHAFEN	4748N	01300E	450	955.4	1008.1	9.3	1.2	8.2	0.8	12	118	26	4	126	80	
11155 FEUERKOGEL	4749N	01344E	1621	831.7	1418	Y	2.1		5.2		16	122	2	129	85	
11212 VILLACHERALPE	4636N	01340E	2160	778.3	1435	Y	-1.5		5.0		21	210	5	56	35	
11231 KLAGENFURT-FLUGHAFEN	4639N	01420E	452	954.6	1009.6	8.9	0.5	8.8	1.7	13	90	16	4	126	67	
11240 GRAZ-THALERHOF-FLUGHAFEN	4700N	01526E	347	967.4	1009.4	9.8	1.0	9.1	1.4	13	109	53	5	123	69	
CZECHOSLOVAKIA																
11406 CHEB	5005N	01224E	471	953.8	1009.7	7.0	0.4	7.6	1.0	11	67	30	5	82	49	
11518 PRAHA/RUZYNE	5006N	01417E	369	965.5	1009.5	7.9	0.2	7.7	0.8	8	36	-2	3	136	77	
11520 PRAHA-LIBUS	5000N	01427E	304	973.2	1009.6	9.2	2.0	8.2	1.4	12	54	18	5	127		
11723 BRNO/TURANY	4909N	01642E	246	980.4	1009.7	10.1	1.3	8.1	1.0	8	49	15	4	151	81	
11782 OSTRAVA/MOSNOV	4941N	01807E	256	980.2	1010.7	9.8	1.9	8.2	1.0	11	87	32	5	152	89	
11903 SLIAC	4838N	01909E	318	972.6	1010.6	10.5	2.1	8.9	1.5	13	68	19	4	123	65	
11934 POPRAD/TATRY	4904N	02015E	707	928.3			8.1	2.5	7.1	0.6	9	92	50	5	118	62
POLAND																
12120 LEBA	5445N	01732E	2	1011.8	1012.1	7.5		8.1		6	28					
12160 EBLAG	5410N	01926E	43	1007.3	1012.5	8.7		8.0		7	41					
12205 SZCZECIN	5324N	01437E	3	1010.1	1010.9	8.7	1.5	7.9	0.5	4	34	-2	4			
12295 BIALYSTOK	5306N	02310E	151	994.7	1013.1	8.4	1.9	8.4	1.2	8	37	-4	2			
12330 POZNAN	5225N	01650E	92	1000.3	1010.5	9.0	1.6	7.7	0.6	8	31	-6	3			



STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE				
					MEAN STATION	MEAN SEA LEVEL	MEAN °C	DEPARTURE °C	MEAN mb	DEPARTURE mb	MEAN mm	TOTAL mm	DEPARTURE mm				
<b>EUROPE</b>																	
<b>TURKEY</b>																	
17030 SAMSUN	4117N	03620E	4	1015.6	1016.0	14.1	2.9	12.2	1.7	5	25	-37	0				
17050 EDIRNE	4140N	02634E	48	1007.6	1013.7	15.8	3.2	11.4	1.6	4	23	-29	1				
17062 ISTANBUL/GOZTEPE	4058N	02905E	40	1010.1	1014.0	15.5	4.0	12.2	2.0	2	16	-31	1				
17074 KASTAMONU	4122N	03346E	799	922.9	1013.7	13.5	-4.0	8.8	0.9	7	21	-33	1				
17090 SIVAS	3945N	03701E	1285	872.1	1014.0	13.9	5.1	7.8	1.1	4	25	-31	1				
17092 ERZINCAN	3944N	03930E	1215	879.9	1018.2	15.1	4.6	8.2	1.2	8	35	-14	2				
17112 CANAKKALE	4008N	02624E	3	1013.4	1014.0	15.2	2.9	13.6	2.5	2	9	-35	1				
17116 BURSA	4011N	02904E	100	1002.5	1014.3	17.2	5.1	10.1	-0.2	4	12	-48	0				
17130 ANKARA/CENTRAL	3957N	03253E	894	912.7	1014.7	16.2	5.2	8.0	0.6	3	7	-37	0				
17190 AFYON	3845N	03032E	1034	898.2	1013.3	11.5	1.4	8.0	0.6	3	12	-31	1				
17220 IZMIR	3826N	02710E	25	1013.4	1016.3	19.1	3.6	12.4	1.4	1	2	-40	1				
17240 ISPARTA	3745N	03033E	997	902.1	1013.8	14.7	4.1	8.5	1.0	3	13	-35	1				
17270 URFA	3708N	03846E	547	949.4	1010.9	21.7	6.1	10.9	1.2	0	1	-56	0				
17280 DIYARBAKIR	3753N	04011E	677	936.9	1013.6	17.9	4.0	10.7	0.3	0	2	-76	0				
17292 MUGLA	3712N	02821E	646	939.5	1013.5	16.0	3.8	9.7	1.0	1	3	-58	0				
17300 ANTALYA	3642N	03044E	57	1007.1	1012.0	17.5	1.2	12.9	0.7	0	T	-47	1				
17352 ADANA	3659N	03518E	20	1010.7	1013.1	21.0		13.3		0	0	0	66				
<b>USSR</b>																	
22113 MURMANSK	6858N	03303E	46	1013.3	1019.7	3.0	4.7	5.3	1.3	7	15	-3	200				
22165 KANIN NOS	6839N	04318E	49	1014.7	1021.0	-2.1	2.8	4.5	0.8	6	17	-2	3				
22550 ARHANGEL'SK	6435N	04030E	13	1021.5	1022.5	3.0	3.0	5.3	1.0	4	22	-5	3				
22602 REBOLY	6349N	03049E	181	997.8	1020.5	2.3	3.0	5.7	1.4	5	29	-3	3				
22837 VYTEGRA	6101N	03627E	59	1014.7	1021.7	5.3	3.6	6.2	1.0	5	11	-35	1				
26038 TALLIN	5925N	02448E	44	1012.1	1016.3	6.4	3.5	7.5	1.8	7	28	-7	3				
26063 LENINGRAD (TOWN/VILLE)	5958N	03018E	4	1017.9	1018.7	7.7	4.3	7.2	0.9	7	26	-9	3				
26477 VELIKIE LUKI	5623N	03036E	98	1004.2	1016.9	7.7	3.1	7.8	1.4	10	34	0	3				
26629 KAUNAS	5453N	02353E	75	1004.0	1013.4	7.9	2.0	8.4	1.6	12	67	27	5				
26850 MINSK	5352N	02732E	234	987.0	1015.0	7.9	2.3	7.9	1.2	8	61	21	5				
27037 VOLOGDA	5917N	03952E	118	1005.3	1021.5	4.4	1.9	5.9	0.3	4	11	-22	1				
27196 KIROV	5839N	04937E	164	1002.0	1022.8	3.4	0.4	4.6	-0.7	4	23	-18	2				
27595 KAZAN'	5547N	04911E	64	1007.5	1022.3	3.6	-0.7	5.5	-0.8	7	25	-7	2				
27612 MOSKVA	5545N	03734E	156	1000.7	1019.8	7.7	2.2	7.4	1.3	8	42	4	4				
33345 KIEV	5024N	03027E	179	995.1	1015.3	10.1	1.7	8.4	0.7	7	28	-12	3				
33393 L'VOV	4949N	02357E	325	974.2	1012.6	9.7	2.3	8.9	1.3	10	50	2	3				
33837 ODESSA	4629N	03038E	64	1009.8	1014.9	11.2	2.4	10.6	1.8	4	14	-17	2				
33946 SIMFEROPOL'	4501N	03359E	205	993.1	1014.7	12.9	3.0	9.9	1.6	3	9	-20	2				
34122 VORONEZ	5142N	03910E	164	1000.5	1018.7	9.1	1.8	7.5	0.3	6	46	11	4				
34172 SARATOV	5134N	04602E	156	997.0	1021.5	7.6	0.9	6.1	-0.5	4	10	-17	2				
34300 HAR'KOV	4956N	03617E	152	998.7	1018.6	9.8	1.2	8.8	1.0	10	59	29	5				
34731 ROSTOV-NA-DONU	4715N	03949E	77	1008.3	1017.6	12.0	1.5	9.6	1.0	4	43	5	4				
34880 ASTRAHAN'	4616N	04802E	18	1020.5	1023.0	11.6	0.8	7.7	0.3	2	24	9	4				
37050 PJATIGORSK	4403N	04302E		954.7	1017.8	11.6	3.0	9.8	1.6	5	31	-16	2				
37549 TBILISI	4141N	04457E	490	977.5	1017.5	16.3	3.8	9.8	0.7	7	22	-29	1				
<b>SYRIAN ARAB REPUBLIC</b>																	
40001 KAMISHLI	3703N	04113E	455	959.4	1010.8	22.4	6.3	9.5	-1.0	0	0	-69	76				
40007 ALEPPO	3611N	03713E	393	968.8	1013.6	21.6	6.0	9.0	-1.3	0	0	-37	0				
40022 LATTAKIA	3532N	03546E	7	1013.5	1014.3	19.4	1.8	14.5	0.9	1	5	-37	1				
40030 HAMA	3508N	03643E	309	978.6	1014.3	19.2	3.1	9.9	-0.3	0	0	-28	0				
40045 DEIR EZZOR	3519N	04009E	212	988.1	1012.4	23.2	4.6	8.0	-1.6	0	0	-22	1				
40061 PALMYRA	3433N	03818E	404	966.3	1012.0	22.6	4.7	7.0	-1.6	1	1	-18	1				
40080 DAMASCUS NEW INTL AIRPORT	3325N	03631E	611	943.1	1011.9	19.0	3.0	7.3	-1.1	1	1	-12	1				
<b>ISRAEL</b>																	
40180 BEN-GURION INTL AIRPORT	3200N	03454E	49	1008.8	1013.5	20.4	2.5	13.9	1.7	0	0	-21	0				
40184 JERUSALEM	3147N	03513E	809	928.2	1504 Y	19.3	3.5	9.3	0.9	0	0	-28	0				
40199 EILAT	2933N	03457E	13	1009.6	1010.7	26.9	2.7	10.1	0.7	1	2	-3	4				
<b>JORDAN</b>																	
40250 H-4 'IRWAISHED'	3230N	03812E	688	935.0	1011.0	21.4	3.5	6.5	-1.0	0	0	-9	0				
40270 AMMAN AIRPORT	3159N	03559E	768	924.9	1011.4	20.3	4.5	7.8	-1.3	0	0	-17	0				
40310 MA'AN	3010N	03547E	1070	887.3	1475 Y	19.8	3.0	9.0	1.9	0	0	-5	0				

EUROPE-JORDAN



ASIA-USSR

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE		
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAY 1 MM	TOTAL	DEPARTURE	QUINTILE	TOTAL	% OF AV.
ASIA	0°	0°	0	mb	mb	°C	°C	mb	mb	mb	mm	mm	mm	hr	%	
USSR																
32150 JUZNO-SAHALINSK	4655N	14244E	31	1008.2	1011.8	1.7	0.1	5.3	-0.1	6	82	29	5	201		
32195 SIMUSIR	4651N	15152E	26	1004.9	1008.1	1.5	0.8	6.2	0.8	13	260	129	5	93		
32411 ICA	5542N	15538E	4	1006.2	1007.1	-1.0	2.5	4.2	0.3	9	67	36	6	169		
32540 PETROPAVLOVSK-KAMCATSKIJ	5258N	15845E	7	1005.6	1008.6	1.0	1.4	4.6	0.5	8	107	41	4	145		
32618 NIKOL'SKOE (OSTROV BERINGA)	5512N	16559E	6	1006.7	1008.5	0.0	0.7	5.4	0.8	11	52	18	5	100		
35121 ORENBURG	5145N	05506E	109	1008.6	1023.2	4.8	-2.4	5.4	-1.5	5	18	-5	3	248		
35394 KARAGANDA	4948N	07308E	555	954.1	1021.4	2.2	-2.5	4.7	-0.9	6	33	9	4	205		
35700 GUR'EV	4701N	05151E	-20	1024.1	1013.0	10.6	0.1	5.8	-1.2	1	7	-4	3	274		
35796 BALHAS	4654N	07500E	423	979.0	1021.8	5.6	-2.0	5.3	-1.1	5	23	9	5	315		
35925 SAM	4525N	05612E	82	1011.0	1021.9	9.6	-1.6	5.2	-2.0	2	2	-17	0	278		
36177 SEMIPALATINSK	5021N	08015E	206	995.9	1020.1	4.8	-0.4	4.7	-0.9	5	24	0	4	218		
36870 ALMA-ATA	4314N	07656E	847	921.4	1020.6	8.1	-2.7	6.6	-1.5	12	149	47	4	204		
38262 CIMBAJ	4257N	05949E	66	1013.6	1021.6	10.6	-1.6	7.1	-0.3	1	2	-16	1	295		
38413 TAMDY	4144N	06437E	220	990.6	1020.0	12.5	-3.2	4.6	-3.7	1	3	-19	1	288		
38457 TASKENT	4116N	06916E	428	961.8	1019.1	12.8	-2.3	6.9	-3.4	5	48	-11	2	300		
38507 KRASNOVODSK	4002N	05259E	89	1007.9	1017.6	14.7	1.4	7.2	-1.9	0	T	-18	1	310		
38687 CARDZOU	3905N	06336E	193	995.6	1017.5	15.6	-2.4	6.2	-4.3	3	10	-20	2	332		
38880 ASHABAD	3758N	05820E	228	991.0	1017.8	17.8	1.2	7.9	-2.7	3	5	-38	1	278		
SAUDI ARABIA																
40356 TURAIF	3141N	03840E	818	920.9	1512	Y	24.1		5.7		1	2				
40357 ARAR	3054N	04108E	552	949.8	1011.4		23.7		8.8							
40360 GURIAT	3125N	03716E	504	954.5	1011.3		22.1		6.7		0	T				
40361 AL-JOUF	2947N	04006E	689	935.7	1012.1		26.1		6.0		3	12				
40362 RAFHA	2938N	04329E	447	961.2	1010.3		27.7		8.3		2	2				
40373 HAFR AL-BATIN	2820N	04607E	360	971.1	1011.5		25.7		8.5							
40375 TABUK	2822N	03638E	776	926.4	1011.7		23.8	2.5	7.2	-0.7	1	2	0	4		
40394 HAIL	2726N	04141E	1013	902.1	1522	Y	21.2	0.4	8.8	-0.4	9	33	9	4		
40400 WEJH	2612N	03628E	21	1007.5	1009.9		25.9	1.8	19.1	1.1	0	0	0	0	293	
40405 GASSIM	2618N	04346E	650	938.4	1010.6		23.0	-0.4	9.7	0.1						
40416 DHAHHRAN	2616N	05009E	17	1009.6	1011.4		25.5	-0.2	15.5	-1.8	1	2	-10	3		
40420 AL AHSA	2517N	04929E	177	991.7	1011.7		27.7		15.7		3	4				
40430 MADINAH	2433N	03942E	636	940.0	1009.9		25.9	-1.7	10.0	1.0	10	41	35	6		
40437 KING KHALED INTL AIRPORT	2456N	04643E	612	943.9	1011.8		24.9		10.4		9	48				
40438 RIYADH	2443N	04643E	612	943.2	1012.9		24.3	-0.5	9.8	-1.4	5	30	0	4		
40439 YENBO	2409N	03804E	6	1008.2	1009.0		28.5		18.5		0	0				
41024 JEDDAH(KING ABDUL AZIZ IAP)	2140N	03909E	18	1006.4	1007.2		29.1		19.5							
41030 MAKKAH	2129N	03950E	310	981.9	1016.5		30.0		18.0		5	8				
41036 TAIF	2129N	04033E	1454	855.4	1507	Y	19.7		12.5		15	159			235	
41062 SULAYEL	2028N	04537E	614	943.7	1012.9		27.0		13.4		7	29				
41112 ABHA	1814N	04239E	2093	792.9	1492	Y	15.5		12.1		11	73				
41114 KHAMIS MUSHAIT	1818N	04248E	2054	797.3	1503	Y	17.2		11.1		8	76			245	
41128 NAJRAN	1737N	04426E	1210	879.8	1507	Y	24.2		9.3		5	18			231	
41136 SHARURAH	1728N	04707E	722	930.5	1009.2		27.3		11.4		2	70	0		215	
41140 GIZAN	1654N	04235E	3	1007.4	1007.7		30.1		27.4							
KUWAIT																
40582 KUWAIT INTL AIRPORT	2913N	04759E	55	30	1006.8	1013.4	26.0	1.5	11.7	-0.1	1	1	-15		96	
AFGHANISTAN																
40911 MAZAR-I-SHARIF	3642N	06712E	378	30	973.0	1017.0	17.2	-1.0	9.4	-3.3	2	16	-9	2	141	
40942 CHAKHCHARAN	3432N	06516E	2230	30	777.5	1494	6.5	-2.8	4.4	-1.6	6	44	9	4	116	
40949 KABUL AIRPORT	3433N	06913E	1791	30	820.9	1500	Y	11.7	-1.4	6.8	-1.3	6	41	-38	2	127
BAHRAIN																
41150 BAHRAIN MUHARRAQ	2616N	05037E	2	30	1012.5	1012.7	24.7	-0.9	18.4	-2.0	1	3	-3	4		
QATAR																
41170 DOHA INTERNATIONAL AIRPORT	2515N	05134E	10	1011.0	1011.9	25.5		16.7			1	3			259	
UNITED ARAB EMIRATES																
41216 ABU DHABI BATEEN AIRPORT	2426N	05428E	3	1011.0	1011.5	25.0		19.7			1	6	4	233	80	
OMAN																
41256 SEEB, INTERNATIONAL AIRPORT	2335N	05817E	15	1009.9	1011.5	28.3		17.0			1	16				



ASIA-HONG KONG

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE	
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAYS 1 MM	TOTAL	DEPARTURE	QUINTILE	TOTAL
ASIA	0°	0°	0	mb	mb	°C	°C	mb	mb	mm	mm	hr	%		
HONG KONG															
45005 ROYAL OBSERVATORY	2218N	11410E	62	1003.8	1011.1	22.0	-0.1	23.0	0.7	11	201	61	4	71	58
MACAU															
45011 MACAO	2212N	11332E	59	1004.2	1011.1	22.0	-0.2	23.4	0.8	13	274	118	5		
DPR KOREA															
47014 CHUNGANG	4147N	12653E	332	974.4	1013.6	9.4		6.6		6	24		1		
47016 HYESAN	4124N	12810E	714	929.4	1014.9	6.9		5.5		5	41				
47025 KIMCHAEK	4040N	12912E	23	1010.7	1013.6	9.3		8.1		2	6				
47035 SINUIJU	4006N	12423E	7	1014.2	1015.4	12.2		7.5		4	8		1		
47055 WONSAN	3911N	12726E	36	1009.5	1013.9	12.1		7.9		4	30		2		
47058 PYONGYANG	3902N	12547E	38	1010.8	1012.8	11.9		7.5		5	16		1		
47069 HAEJU	3802N	12542E	81	1004.6	1014.3	12.9		7.7		2	23		1		
REPUBLIC OF KOREA															
47105 KANGNUNG	3745N	12854E	27	1010.5	1013.8	14.5	2.9	9.1	0.9	2	71	-9	3	206	90
47112 INCHON	3729N	12638E	70	1006.0	1014.4	12.7	2.6	8.3	-0.1	4	13	-80	1	254	107
47159 PUSAN	3506N	12902E	71	1005.4	1013.8	14.8	2.2	11.3	1.4					249	114
47165 MOKP'0	3447N	12623E	56	1008.2	1015.0	14.0	2.2	10.3	-0.3	3	25	-83	0	210	100
JAPAN															
47401 WAKKANAI	4525N	14141E	11	1009.6	1011.0	4.0	-0.3	6.2	0.1	4	50	-9	3		85
47407 ASAHIKAWA	4346N	14222E	116	996.8	1011.0	5.8	1.1	6.3	0.6	20	55	-9	3		89
47409 ABASHIRI	4401N	14417E	43	1005.9	1011.2	3.1	-0.9	6.1	0.5	10	86	37	6		79
47412 SAPPORO	4303N	14120E	19	1008.6	1010.9	7.3	1.1	6.7	0.6	6	69	3	4		89
47420 NEMURO	4320N	14535E	26	1007.5	1010.8	3.2	0.1	6.2	0.1	8	111	28	4		89
47426 URAKAWA	4210N	14247E	33	1007.2	1011.1	5.3	0.4	8.7	2.2	8	121	24	4		99
47582 AKITA	3943N	14006E	10	1011.9	1013.2	9.5	0.7	8.7	0.4	13	208	66	5		67
47585 MIYAKO	3939N	14158E	47	1006.0	1011.7	9.0	0.3	7.5	0.2	10	207	134	6		102
47590 SENDAI	3816N	14054E	43	1007.3	1012.5	11.3	1.3	8.4	0.4	8	217	136	6		112
47600 WAJIMA	3723N	13654E	6	1012.4	1014.1	11.0	0.5	9.3	0.1	11	85	-57	1		121
47604 NIIGATA	3755N	13903E	6	1013.0	1013.8	11.7	1.0	9.0	0.1	18	128	31	5		108
47605 KANAZAWA	3633N	13639E	28	1010.9	1014.2	12.8	0.9	9.4	-0.4	12	114	-45	1		125
47618 MATSUMOTO	3615N	13758E	611	942.1	1013.3	10.6	0.4	6.9	-0.7	6	100	5	3		113
47624 MAEBASHI	3624N	13904E	113	999.2	1012.6	13.9	1.5	8.5	-0.5	7	121	44	5		131
47636 NAGOYA	3510N	13658E	56	1006.9	1013.5	14.9	1.4	9.6	-0.9	6	136	-19	2		129
47648 CHOSHI	3543N	14051E	28	1009.4	1012.7	14.6	1.2	11.8	0.1	12	126	-8	3		142
47655 OMAEZAKI	3436N	13813E	47	1007.4	1013.0	14.7	0.5	11.9	-0.6	9	183	-13	3		133
47662 TOKYO	3541N	13946E	36	1008.4	1012.6	15.6	1.7	10.0	-0.4	11	187	61	5		133
47678 HACHIJOGIMA	3306N	13947E	80	1003.6	1013.1	16.6	0.3	13.9	-0.4	11	250	-2	3		121
47744 YONAGO	3526N	13321E	8	1013.3	1014.2	13.2	0.9	10.2	0.0	7	57	-67	0		115
47765 HIROSHIMA	3422N	13226E	30	1007.8	1014.1	15.3	2.0	10.1	-0.8						125
47772 OSAKA	3441N	13531E	50	1008.2	1014.1	15.5	1.1	10.2	-0.3	5	68	-80	1		118
47778 SHIONOMISAKI	3327N	13546E	75	1004.5	1013.3	16.0	0.6	12.9	0.1	10	158	-113	1		113
47800 IZUHARA	3412N	12918E	22	1011.3	1014.0	15.0	1.8	12.3	1.4	7	44	-188	0		129
47807 FUKUOKA	3335N	13023E	14	1012.1	1013.8	16.2	2.0	11.6	0.2	5	35	-113	0		125
47815 OITA	3314N	13137E	13	1012.3	1013.8	15.0	1.2	11.5	-0.1	9	106	-39	2		121
47817 NAGASAKI	3244N	12952E	35	1009.4	1013.5	16.3	1.3	12.4	0.2	5	36	-168	0		123
47827 KAGOSHIMA	3134N	13033E	5	1012.5	1013.1	17.3	1.1	13.0	-0.9	10	77	-182	1		96
47830 MIYAZAKI	3155N	13125E	7	1012.6	1013.5	16.7	0.9	13.5	-0.4	9	231	7	3		88
47893 KOCHI	3333N	13332E	18	1011.6	1013.7	15.6	0.1	11.5	-0.9	8	141	-165	1		121
47898 SHIMIZU/ASHIZURI	3243N	13301E	33	1009.6	1013.5	16.8	0.2	12.8	-0.7	10	171	-77	2		110
47909 NAZE	2823N	12930E	7	1011.3	1012.2	19.8	-0.2	18.1	0.8	18	309	90	5		62
47918 ISHIGAKIJIMA	2420N	12410E	7	1010.9	1011.7	23.1	0.2	23.1	0.3	9	144	-1	3		73
47927 MIYAKOJIMA	2447N	12517E	41	1007.3	1012.0	22.2	0.2	22.2	0.2	14	189	10	3		84
47936 NAHA	2612N	12741E	53	1005.9	1012.1	21.3	0.4	20.2	0.3	14	188	20	4		85
47945 MINAMIDAITOJIMA	2550N	13114E	15	1010.7	1012.5	21.9	0.5	21.1	0.3	9	85	-24	2		88
BURMA															
48042 MANDALAY	2159N	09606E	76	998.2	1007.8	31.9	1.0	23.9	0.4	2	39	-4	4		
48062 AKYAB	2008N	09253E	5	1010.0	1010.6	25.3	-3.1	27.1	-0.7	2	53	-16	4		
THAILAND															
48327 CHIANG MAI	1847N	09859E	314	970.9	1005.5	29.3	0.5	19.4	-4.9	5	32	-18	3	293	111
48354 UDON THANI	1723N	10248E	182	985.6	1005.6	30.7	0.9	26.8	0.6	5	68	-14	3		

ASIA-THAILAND

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE	
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAY 1 MM	TOTAL	DEPARTURE	QUINTILE	TOTAL hr
<b>ASIA</b>															
THAILAND	0°	0°	8		mb	mb	°C	°C	mb	mb	mm	mm	mm	hr	%
48378 PHITSANULOK	1647N	10016E	45	1000.9	1006.0	32.1	0.9	26.1	-2.4	0	1	-54	0	305	
48400 NAKHON SAWAN	1548N	10010E	35	1002.0	1006.0	33.0	1.4	27.6	-0.6	1	5	-57	0	299	
48431 NAKHON RATCHASIMA	1458N	10205E	188	984.5	1006.4	31.3	1.3	27.3	-1.1	3	12	-57	1		
48455 BANGKOK	1344N	10034E	20	1005.1	1007.4	31.5	1.2	30.9	-2.1	1	2	-62	1	285 115	
48462 ARANYAPRATHET	1342N	10235E	49	1001.9	1007.3	31.9	1.6	29.8	-1.0	5	40	-65	1		
48480 CHANTHABURI	1236N	10207E	4	1007.6	1008.0	29.3	0.8	31.4	0.0	4	68	-49	2	276	
48500 PRACHUAP KHIRIKHAN	1150N	09950E	5	1007.0	1007.7	29.1	0.4	29.8	-0.6	3	51	10	4	275	
48517 CHUMPHON	1029N	09911E	5	1007.7	1008.4	29.1	0.7	30.7	0.5	6	95	14	3	231	
48568 SONGKHLA	0712N	10036E	5	1007.4	1008.1	28.7	0.2	28.8	1.7	8	104	42	5	253	
<b>VIET NAM</b>															
48820 HA NOI	2101N	10548E	6	1007.0	1007.7	23.7		25.0		5	34			95	105
48845 VINH	1842N	10540E	6	1000.7	1008.4	23.6		26.0						151	120
<b>LAO PDR</b>															
48930 LUANG-PRABANG	1953N	10208E	305	30	976.2	1010.3	28.4	1.2	23.2	-3.2	7	132	40	4	
48938 SAYABOURY	1914N	10144E	326	30	983.8	1002.9	28.2	0.8	23.6	-1.5	8	109	-11		
48940 VIENTIANE	1757N	10234E	171	30	988.2	1007.3	29.5	1.1	27.3	2.1	7	86	-1	3	
48948 SENO	1640N	10500E	184	30			29.5	1.1	20.9	-2.3	4	191	92	5	
48955 PAKSE	1507N	10547E	102	30	996.4	1007.0	30.4	0.5	27.6	1.4	8	125	61	5	
<b>CHINA</b>															
50745 QIQIHAERHET	4723N	12355E	148		994.1	1012.1	7.6	2.0	4.6		1	5	-7	2	280 115
51076 ALTAY	4744N	08805E	737		932.8	1019.9	7.1	0.1	3.8		2	5	-9	2	263 95
51431 YINING	4357N	08120E	663		942.3	1020.5	9.6	-2.5	6.2		7	30	3	3	233 95
51777 RUQIANG	3902N	08810E	889		911.1	1012.5	14.8	-0.1	4.1		0	1	0	4	255 110
51828 HOTAN	3708N	07956E	1375		859.6	1009.9	14.4	-2.1	4.5		2	4	1	5	243 125
52203 HAMI	4249N	09331E	739		928.0	1013.0	13.1	-0.1	3.6		1	1	-2	3	303 105
52533 JIUQUAN	3946N	09829E	1478		850.3	1014.4	9.6	0.2	4.0		2	4	-1	3	228 90
52836 DULAN	3618N	09806E	3192		688.2		2.1	-2.2	3.0		9	28	-7	4	221 80
52889 LANZHOU	3603N	10353E	1518		845.7		11.5	-0.2	6.8		6	34	16	5	204 90
53614 YINCHUAN	3829N	10613E	1112		889.1	1015.1	11.0	0.4	6.3		4	31	19	5	227 90
54292 YANJI	4253N	12928E	178		991.9	1013.6	8.6	2.1	5.1		7	37	10	5	261 115
54342 SHENYANG	4146N	12326E	43		1009.2	1014.4	12.8	3.4	6.1		2	8	-31	1	282 160
54511 BEIJING	3956N	11617E	55		1008.1	1014.6	16.1	2.9	7.4		2	36	16	5	281 110
54857 QINGDAO	3604N	12020E	77		1006.5	1015.8	12.9	2.2	8.6		2	9	-32	1	270 125
55591 LHASA	2940N	09108E	3650		648.8		9.3	1.1	2.7		2	6	-1	4	268 110
56137 QAMDO	3109N	09710E	3307		678.1		6.8	-1.3	4.7		14	39	25	6	173 95
56294 CHENGDU	3040N	10401E	508		954.1	1012.9	15.6	-1.4	14.5		12	60	10	4	78 70
56571 XICHANG	2754N	10216E	1599		833.6		19.1	-0.4	8.6						263 105
56739 TENGCHONG	2507N	09829E	1649		832.9		16.1	0.6	10.7		9	44	-29	2	229 115
56778 KUNMING	2501N	10241E	1892		807.6		17.3	0.8	9.2		0	2	-19	1	234 85
56985 MENGZI	2323N	10323E	1302		865.7	1005.8	21.2	0.3	13.4		2	10	-48	0	209 90
57036 XI'AN	3418N	10856E	398		967.3	1014.0	14.7	0.8	11.5		6	61	6	3	76 45
57083 ZHENGZHOU	3443N	11339E	111		1001.7	1015.0	15.9	1.2	10.6		2	7	-52	0	183 95
57461 YICHANG	3042N	11118E	134		998.6	1014.5	16.7	0.2	14.2		11	126	21	4	91 70
57745 ZHIJIANG	2727N	10941E	273		980.3	1012.4	16.2	-0.1	15.2						
57993 GANZHOU	2551N	11457E	125		997.2	1011.8	19.6	0.3	18.7		13	169	-21	3	77 70
58367 SHANGHAI	3110N	12126E	7		1013.5	1014.3	14.5	0.5	12.7		11	193	86	5	110 70
58606 NANCHANG	2836N	11555E	50		1006.9	1012.4	16.6	-0.3	16.2		19	278	58	5	57 50
59287 GUANGZHOU	2308N	11319E	8		1010.3	1011.2	21.9	0.0	22.7		13	195	36	3	47 50
59316 SHANTOU	2324N	11641E	3		1010.9	1011.8	20.9	0.4	20.8		13	259	175	6	91 75
59431 NANNING	2249N	10821E	73		1000.9	1009.3	22.2	0.3	21.8		8	71	-34	2	73 70
<b>AFRICA</b>															
MADEIRA	3238N	01654W	56		1012.8	1019.5	16.7		12.8		2	12		2	198 90
SPAIN (CANARY ISLANDS)	2828N	01615W	46		1015.9	1020.1	18.7	-0.3	13.7	0.3	1	5	-10	2	260 108
WESTERN SAHARA	2342N	01552W	10		1015.0	1016.3	18.0	-1.2	16.7	1.8	0	0	0	0	322 80



STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE			
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAYS 1 MM	TOTAL	DEPARTURE	QUINTILE		
<b>AFRICA</b>																
MALI	0°	0°	334	mb	970.4	1006.8	32.8	0.2	14.1	0.6	1	2	-8	3	284	100
61270 KITA	1304N	00928W	334	975.2	1006.7	32.4	0.9	14.2	0.4	0	0	-9	0	250	89	
61272 SEGOU	1324N	00609W	289	975.9	1006.7	33.4	1.1	11.2	-2.4	0	0	-15	1	261		
61277 SAN	1320N	00450W	284	965.4	1006.8	32.7	1.2	11.7	-4.0	1	2	-14	2	253		
61285 KENIEBA	1251N	01114W	132	966.3	1006.2	32.1	1.1	14.6	-1.9	1	19	-8	4	269		
61291 BAMAKO/SENOU	1232N	00757W	381	963.6	1006.7	31.3	0.7	18.6	-0.6	1	3	-43	1	247	100	
61293 KOUTIALA	1223N	00528W	367	961.3	1006.6	31.4	0.9	20.6	-0.4	2	13	-32	1	237	105	
61297 SIKASSO	1121N	00541W	375	972.4	1013.5	20.7	-1.0	12.6	0	0	-1	0	335			
<b>MAURITANIA</b>																
61401 BIR MOGHREIN	2514N	01137W	360	973.2	1012.2	22.2	13.5	0	0	T	-1	5	347			
61404 ZOUERATE	2245N	01229W	343	1014.7	1015.2	18.7	-1.4	14.7	-1.2	0	T	-1	5			
61415 NOUADHIBOU	2056N	01702W	3	986.8	1012.1	26.6	-0.5	8.4	0.1	0	T	-1	5	323		
61421 ATAR	2031N	01304W	224	1010.3	1012.5	28.0	-0.6	9.1	-1.0	0	0	0	0	312		
61437 AKJOUJT	1945N	01422W	120	1010.4	1011.8	23.7	-1.5	13.6	-1.0	0	0	0	0	297		
61442 NOUAKCHOTT	1806N	01557W	3	1002.8	1011.3	28.5	0.1	8.9	-2.6	0	0	0	0	224		
61450 TIDJIKJA	1834N	01126W	402	1006.9	1009.6	30.4	0.4	10.1	-2.0	0	T	-1	5			
61461 BOUTILIMIT	1732N	01441W	75	1011.1	1011.8	28.3	-0.9	8.9	0	0	0	0	0	263		
61489 ROSSO	1630N	01549W	6	1011.1	1011.8	27.1	-0.7	12.0	0.3	0	T	1	5			
61497 NEMA	1536N	00716W	269	1008.2	1008.2	32.5	0.8	0	0	0	-3	0	217			
61499 AIOUN EL ATROUSS	1642N	00936W	223	983.5	1008.2	31.0	-0.1	5.0	-3.0	0	0	-3	0	270		
<b>SENEGAL</b>																
61600 SAINT-Louis	1603N	01627W	4	1010.7	1011.2	22.6	-0.6	16.3	0.0	0	0	0	0	0		
61612 PODOR	1639N	01458W	7	1010.0	1010.8	29.4	-0.4	10.5	0.4	0	0	0	0	253		
61627 LINGUERE	1523N	01507W	21	1007.3	1009.6	30.4	0.4	10.1	-2.0	0	T	-1	5	292		
61630 MATAM	1539N	01315W	17	1006.9	1009.8	32.8	1.0	10.2	-1.1	0	T	-1	5	293		
61641 DAKAR/YOFF	1444N	01730W	24	1008.1	1011.4	19.7	-1.8	18.6	-1.5	0	0	0	0	287		
61666 DIOURBEL	1439N	01614W	9	1008.8	1009.8	27.8	-0.6	16.7	2.2	0	0	0	0	289		
61679 KAOLACK	1408N	01604W	7	1010.1	1010.9	29.7	0.3	16.4	1.4	0	0	0	0	295		
61687 TAMBAOUNDA	1346N	01341W	50	1002.8	1008.4	32.3	0.2	11.5	0.1	0	T	-2	5	304		
61695 ZIGUINCHOR	1233N	01616W	23	1007.0	1009.9	26.3	-1.1	20.3	0.8	0	0	-1	0	296		
61698 KOLDA	1253N	01458W	10	1006.6	1006.6	30.7	0.0	15.4	-2.9	0	0	-1	0	273		
61699 KEDOUGOU	1234N	01213W	167	1008.4	1008.4	33.0	0.5	10.4	-5.3	0	0	-5	0	270		
<b>GUINEA-BISSAU</b>																
61766 BISSAU (AEROPORT)	1153N	01539W	36	1007.4	1009.9	27.4	0.5	21.6	0.2	0	0	-1	4			
61769 BOLAMA	1135N	01529W	20	1007.9	1010.4	27.7	24.3	0	0	0	0	0	4			
<b>SIERRA LEONE</b>																
61856 LUNGI	0837N	01312W	27	1004.7	1007.6	27.0	-0.9	17.6	-10.9	1	1	-53	1	291	130	
61878 NJALA	0806N	01206W	56	1000.2	1006.4	28.0	27.3	0	7	56				222		
61886 KABALA	0935N	01133W	464	957.7	1008.9	27.5	0.1	25.8	2.5	4	89	-22	3	163		
61891 DARU	0759N	01051W	186	987.6	1008.7	27.4	0.1	27.5	-0.5	11	207	36	4	221	125	
<b>UNITED KINGDOM (OCEAN IS.)</b>																
61901 ST. HELENA IS.	1556S	00540W	436	965.0	1015.2	20.2	1.2	20.2	0	16	64	-1	4	114		
<b>FRANCE (OCEAN ISLANDS)</b>																
61968 ILES GLORIEUSES	1135S	04717E	4	1012.6	1013.1	27.2	-0.4	28.3	0.3	8	77	-23	2	256		
61970 ILE JUAN DE NOVA	1703S	04242E	10	1011.5	1012.7	28.0	27.5	0	4	25				281		
61972 ILE EUROPA	2219S	04020E	13	1013.3	1014.8	25.6	0.3	23.7	-0.5	2	11	-17	3	277	105	
61976 SERGE-FROLLO (ILE TROMELIN)	1553S	05431E	13	1010.4	1011.8	27.1	0.0	27.4	0.1	15	87	-21	3	244		
61980 SAINT-DENIS/GILLOT (REUNION)	2053S	05531E	25	1010.9	1013.8	25.0	0.3	23.8	0.3	6	19	-150	1	260	125	
61996 MARTIN DE VIVIES(ILE AMST.)	3748S	07732E	29	1017.4	1020.9	15.4	0.6	14.5	-0.1	14	115	13	4	99		
61997 ALFRED FAURE (ILES CROZET)	4626S	05152E	142	991.2	1008.4	6.4	8.3	0	24	358				81		
61998 PORT-AUX-FRANCAIS(ILES KER.)	4921S	07015E	30	998.1	1001.8	6.3	0.7	8.1	0.5	13	66	-7	3	104		
<b>MAURITIUS</b>																
61974 AGALEGA	1026S	05645E	3	1010.2	1010.5	27.5	-0.1	29.6	-1.0	13	97	-63	2			
61986 ST. BRANDON (ST. RAPHAEL)	1627S	05937E	4	1011.2	1011.5	27.0	-0.3	28.3	-0.6	7	20	-77	0			
61988 RODRIGUES	1941S	06325E	59	1006.3	1012.6	25.8	0.1	27.3	1.2	10	122	-7	3	258	105	
61990 PLAISANCE (MAURITIUS)	2026S	05740E	57	1013.1	1019.0	24.6	0.1	26.1	-0.2	18	236	21	3	203	105	

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE	
					MEAN STATION mb	MEAN SEA LEVEL mb	MEAN °C	DEPARTURE °C	MEAN mb	DEPARTURE mb	DAYS 1 MM	TOTAL mm	DEPARTURE mm	QUINTILE	
<b>AFRICA</b>															
LIBYAN ARAB JAMAHIRIYA	0°	0°	#												
62010 TRIPOLI INTL AIRPORT	3240N	013039E	81	30	1002.6	1011.8	19.7	1.3	12.4	0.9	0	0	-19	1	
62053 BENINA	3205N	02016E	132		998.1	1013.4	21.6	2.7	12.7	0.6	0	0	-7	0	
62124 SEBHA	2701N	01426E	432		961.4	1010.0	25.6	2.1	6.9	-1.9	0	0	-1	0	
62271 KUFRA	2413N	02318E	435		965.0	1010.5	26.5	2.1	2.0	-4.0	0	0	0	0	
<b>SUDAN</b>															
62640 ABU HAMED	1932N	03319E	312		971.4	1006.3	29.7	0.3	6.9	-0.6	0	0	-T	0	
62721 KHARTOUM	1536N	03233E	380		962.0	1004.7	32.0	0.9	6.8	-1.9	0	0	0	0	
62730 KASSALA	1528N	03624E	500		950.6	1005.3	30.2	-1.0	12.3	-1.0	2	3	-1	4	
62762 SENNAR	1333N	03337E	418		957.9	1003.9	28.6		10.1		0	T	3		
62810 KADUGLI	1100N	02943E	499		951.4	1005.3	30.0		9.9		0	T	2	236	
<b>ETHIOPIA</b>															
63021 ASMARA	1517N	03855E	2325	30	770.7		14.4	-4.0	9.5	0.0	6	25	-2	4	
63331 GONDAR	1232N	03726E	1966	30	804.0		20.3	-2.8	11.0	-0.2	5	29	-25	2	
63402 JIMMA	0740N	03650E	1577	30	832.1		19.9	-0.6	16.5	1.5	15	183	61	4	
63450 ADDIS ABABA	0859N	03848E	2324	30	767.2		16.7	-1.5	10.3	-0.8	11	151	67	5	
63471 DIRE DAWA	0936N	04152E	1146	30	885.2		23.7	-3.3	18.8	2.4	15	250	209	73	
<b>KENYA</b>															
63619 MOYALE	0332N	03903E	1097	30			22.4	-0.3	19.8	-1.0	9	213	15	4	
63686 ELDORET	0032N	03517E	2133		789.5	1484 Y	16.9		13.8		13	159	4	234	
63723 GARISSA	0028S	03938E	147		994.5	1011.2	28.9	-1.0	25.8	-0.5	13	274	198	6	
63740 NAIROBI/KENYATTA AIRPORT	0119S	03655E	1624		838.6	1502 Y	19.4	-0.9	16.7		15	217	60	4	
63799 MALINDI	0314S	04006E	23		1008.2	1010.8	27.4		28.5		14	189	8	3	
<b>UNITED REPUBLIC OF TANZANIA</b>															
63756 MWANZA	0228S	03255E	1140		886.5	1459 Y				20.4					
63862 DODOMA	0610S	03546E	1120		890.6	1519 Y	21.9			20.4					
63894 DAR ES SALAAM AIRPORT	0652S	03912E	55		1006.1	1012.4	26.1	-0.4	28.6	1.7	15	259	-11	3	
63962 SONGEA	1041S	03535E	1067		898.2	1539 Y	20.9	-0.6	20.5	0.5	18	169	57	5	
<b>ZAIRE</b>															
64210 KINSHASA/N'DJILI	0423S	01526E	312		974.0	1009.0	25.4	0.0	25.9		19	214	-16	3	
<b>RWANDA</b>															
64387 KIGALI	0158S	03007E	1497		850.8	1502 Y	19.5			18.1		15	273		
<b>CONGO</b>															
64402 MOUYONDZI	0359S	01355E	512		951.6	1007.9	23.9	-1.1	25.5		11	236	52	5	
64450 BRAZZAVILLE/MAYA-MAYA	0415S	01515E	316		973.3	1008.0	26.3	-0.1	26.3		8	60	-142	0	
64456 MAKOUA	0001S	01535E	379		966.1	1008.1	26.1	0.1	26.8		9	142	6	3	
64458 OUESSO	0137N	01603E	352		969.8	1008.8	26.4	0.4	26.9				212	128	
<b>GABON</b>															
64500 LIBREVILLE	0027N	00925E	15		1007.4	1008.8	27.0	0.1	30.1	-0.5	19	339	-8	3	
64501 PORT-GENTIL	0042S	00845E	4		1008.8	1009.3	26.6	-0.6	30.1	-0.6				202	
64504 COCOBEACH	0100N	00936E	13		1007.9	1009.4	26.7	-0.1	30.5	-0.5	19	291	-50	2	
64510 BITAM	0205N	01129E	599		942.7	1008.6	23.7	-1.2	25.5	0.0	15	219	14	3	
64545 MEKAMBO	0101N	01356E	501		952.7	1008.1	24.5	-0.2	25.7	0.7	18	194	18	4	
64565 MOANDA	0132S	01316E	573		945.3	1008.4	24.5	-0.1	25.7	0.6	15	80	-151	0	
<b>CENTRAL AFRICAN REPUBLIC</b>															
64600 BERBERATI	0415N	01548E	583		943.4	1007.4	25.2	0.0	24.9	0.6	9	195	55	5	
64601 BOUAR	0558N	01538E	1020		897.7	1493 Y	23.9	-0.4	20.9	-1.1	9	81	-39	2	
64605 BOSSEMBELE	0516N	01738E	674		933.4	1005.9	26.3	0.4	23.0	-1.2	11	80	-46	2	
64610 BOSSANGOA	0629N	01726E	465		955.1	1005.4	29.0	1.4	22.8	-2.1	7	19	-77	0	
64650 BANGUI	0424N	01831E	366		966.7	1007.2	26.9	0.0	25.5	-1.3	11	143	3	3	
64654 N'DELE	0804N	02039E	511		950.2	1005.6	29.4	0.9	18.9	-3.2	5	69	-10	4	
64655 BRIA	0632N	02159E	584		942.9	1006.0	26.9	0.5	22.5	-1.8	12	98	-25	2	
64659 OBO	0524N	02630E	651		935.9	1005.8	26.8	0.6	22.8	-1.2	13	159	39	4	
64660 BAMBARI	0551N	02039E	475		954.5	1006.1	27.4	0.5	24.6	-1.0	9	94	-13	3	
64661 YALINGA	0630N	02316E	602		940.5	1005.5	25.9	-0.2	21.6	-2.8	9	67	-42	1	
64662 ALINDAO	0503N	02112E	449				26.5	-0.1	25.8	0.0	10	124	-9	3	

AFRICA-CHAD

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE			
					MEAN STATION	MEAN SEA LEVEL	MEAN °C	DEPARTURE °C	MEAN mb	DEPARTURE mb	DAYS 1 MM	TOTAL mm	DEPARTURE %	QUINTILE %	TOTAL hr	% OF AV.	
<b>AFRICA</b>																	
<b>CHAD</b>			0°	0°	mb	mb	°C	°C	mb	mb	mm	mm	%	%	hr	%	
64700 NDJAMENA	1208N	01502E	295		972.0	1004.7	32.8	0.1	9.7	-3.9	0	0	-9	0	300	111	
64706 MOUNDOU	0837N	01604E	422		959.0	1004.5	31.0	0.5	16.9	-4.9	5	27	-32	2	287	135	
64750 SARH	0909N	01823E	365		965.2	1005.0	30.8	-0.1	18.6	-4.1					275	124	
<b>REPUBLIC OF CAMEROON</b>																	
64870 NGAOUNDERE	0721N	01334E	1104		888.9	1482	Y	23.6	0.0	8.2		10	138	3	216	121	
64910 DOUALA OBS.	0400N	00944E	9		1007.6	1008.6	26.9	-0.4	29.7		11	233	-7	3	178	119	
64950 YAOUNDE	0350N	01131E	760		925.4	1008.2	23.7	-0.4	23.5		15	170	-29	3	173	114	
<b>BENIN</b>																	
65306 KANDI	1108N	00256E	292	30	974.1	1006.1	31.9	0.2	19.8	-1.6	2	58	20	5			
65319 NATITINGOU	1019N	00123E	461	30	957.1	1007.4	29.4	0.5	21.8	-1.3	5	82	-7	4			
65330 PARAKOU	0921N	00237E	393	30	964.6	1007.8	28.8	0.4	24.6	-0.2	4	51	-40	2			
65335 SAVE	0759N	00226E	200	30	986.0	1008.3	27.9	-0.1	26.4	-0.9	7	162	48	5			
65338 BOHICON	0710N	00204E	167	30	989.9	1008.6	27.8	-0.3	30.3	1.7	9	77	-67	1			
65344 COTONOU	0621N	00223E	9	30	1008.0	1009.0	28.9	0.5	31.8	0.2	7	113	-18	3			
<b>TOGO</b>																	
65351 DAPAON	1052N	00015E	330		970.6	1007.0	32.1		22.3		4	29			252		
65352 MANGO	1022N	00028E	146		990.3	1008.4	32.7	1.7	24.7	-0.5	1	29	-31	1			
65361 SOKODE	0859N	00109E	387		964.9	1008.2	28.4	0.9	25.4	-0.5	6	72	-32	2			
65376 ATAKPAME	0735N	00107E	402		963.5	1008.5	26.6	0.0	26.8	1.1	6	65	-60	1	222	110	
65380 TABLIGBO	0635N	00130E	44		1004.0	1009.1	27.9	-0.1	30.0	0.2	8	143	1	3			
65387 LOOME	0610N	00115E	25		1006.5	1009.3	28.3	0.6	33.4	3.0	5	153	53	5	237	110	
<b>BURKINA FASO</b>																	
65501 DORI	1402N	00002W	277		975.8	1006.1	32.8	0.0	10.6	-2.7	0	0	-5	0	332		
65502 OUAHIGOUEYA	1334N	00225W	336		969.2	1005.7	33.4	0.7	9.7	-4.1	0	0	-8	0	293		
65503 OUAGADOUGOU	1221N	00131W	306		972.8	1006.0	33.5	1.1	14.3	-3.4	0	0	-23	0	283	120	
65507 FADA N'GOURMA	1202N	00022E	309		971.9	1005.6	33.3	1.2	16.7	-2.0	1	18	-9	3	275		
65510 BOBO-DIOULASSO	1110N	00419W	460		956.8	1006.9	30.6	0.7	19.1	-0.7	9	5	-42	1	240		
65516 BOROMO	1145N	00256W	271		976.7	1006.4	32.5	0.7	18.3	-0.8					274		
65522 GAOUA	1020N	00311W	335		970.5	1007.2	30.4	0.3	22.4	-1.0	8	35	-45	1	264		
<b>LIBERIA</b>																	
65660 ROBERTS FIELD	0615N	01021W	18		1008.8	1009.8	27.3	0.4	28.6	-0.8	5	54	-88	1	186		
<b>COMOROS (FRANCE)</b>																	
67005 DZAOUZI/PAMANZI (MAYOTTE)	1248S	04517E	7		1010.9	1011.7	27.2	-0.1	30.2	0.4	9	85	-17	3	270		
<b>MADAGASCAR</b>																	
67027 MAJUNGA	1540S	04621E	18		1010.1	1012.2	27.0	-0.7	26.5	-1.1	5	27	-40	2	292	98	
67073 MAINTIRANO	1803S	04402E	23		1010.5	1018.1	26.9	0.2	27.6	0.1	3	31	2	4	303	101	
67083 ANTANANARIVO/IVATO	1848S	04729E	1276		876.3	1536	Y	18.6	-0.7	16.5	-0.7	3	40	-20	3	245	110
67095 TAMATAVE	1807S	04924E	6		1014.4	1015.1	24.1	-0.8	25.8	-1.4	20	239	-43	3	161	82	
67143 MANANJARY	1212S	04822E	6		1015.3	1016.0	24.9	0.7	27.1	0.8					242	114	
67161 TULEAR	2323S	04344E	8		1012.9	1013.8	25.0	0.0	25.7	2.2	0	0	-14	2	297	97	
<b>MOZAMBIQUE</b>																	
67215 PEMBA	1258S	04030E	50		1001.4	1012.6	25.5	-0.9	19.4	-8.4	7	70	-63			117	
67217 LICHINGA	1317S	03515E	1365		867.0	1533	Y	18.5	0.1	16.7	-1.1	9	137	51	5		
67237 NAMPULA	1506S	03917E	441		963.7	1014.3	23.6	0.1	23.1	-0.4	4	40	-43	1		104	
67261 TETE	1611S	03335E	150	30	997.7	1014.6	26.2	-0.4	24.3	2.1	0	0	-15	1		103	
67297 BEIRA	1948S	03454E	16		1013.8	1015.6	25.4	0.2	23.4	-1.5	11	167	43	4		98	
67323 INHAMBARANE	2352S	03523E	15	30	1015.6	1017.2	24.4	0.0	22.4	-1.0	8	79	2	4		107	
67341 MAPUTO/MAVALANE	2555S	03234E	44	30	1013.4	1018.6	23.6	0.4	21.4	-0.5	6	31	-28	2		97	
<b>ZAMBIA</b>																	
67475 KASAMA	1013S	03108E	1384		863.3	1515	Y	19.8	-0.6	18.5	0.6	9	140	57	5	160	68
67633 MONGU	1515S	02309E	1053		897.2	1518	Y	22.1	-0.2	18.8	0.9					270	106
67663 KABWE	1427S	02828E	1207		881.8	1520	Y	19.2	-0.5	16.9	0.0	1	50	27	5	249	95
67743 LIVINGSTONE	1749S	02549E	986		904.9	1524	Y	21.2	-0.8	17.1	1.1	4	107	81	5	258	101
<b>MALAWI</b>																	
67586 KAMUZU INTL.	1347S	03346E	1229	30	880.3	1520	Y	19.1		17.8		8	18				









N AMER-DOMINICAN REP

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE	
					MEAN STATION	MEAN SEA LEVEL	MEAN °C	DEPARTURE °C	MEAN mb	DEPARTURE mb	DAYS 1 MM	TOTAL mm	DEPARTURE mm	QUINTILE	TOTAL hr
N AMERICA	0°	0°	3												
DOMINICAN REPUBLIC															
78457 PUERTO PLATA	1945N	07033W	15		1014.3	1015.8	25.1	0.5	25.2	0.3	7	28	-136		
78486 SANTO DOMINGO	1826N	06953W	14		1014.0	1015.4	25.2	-0.3	25.4	-0.5	5	38	-28	2	
PUERTO RICO AND US POSS															
78526 SAN JUAN/INTL, PUERTO RICO	1826N	06600W	19				26.0	0.1			10	67	-24	3	
BELIZE															
78583 BELIZE/INTL AIRPORT	1732N	08818W	5		1013.0	1013.5			28.8	1.6	5	58	9	4	71
HONDURAS															
78701 GUANAJA	1628N	08555W	2		1012.7	1012.7	28.3	0.7	29.1	0.4	6	62	-2	4	
78705 LA CEIBA (AIRPORT)	1544N	08652W	26		1011.9	1014.8	25.7		26.7		5	155	5	256	
78706 TELA	1543N	08729W	3		1009.8	1010.1	24.1	-2.4	30.2	3.4	5	122	42	4	244
78708 LA MESA (SAN PEDRO SULA)	1527N	08756W	31		1007.5	1009.3	28.1	0.8	27.4	1.2	6	12	-17	3	
78711 PUERTO LEMPIRA	1513N	08348W	13		1011.2	1012.6	27.9	0.8	28.5	0.2	12	55	4	4	
78714 CATACAMAS	1454N	08556W	442		963.4	1013.0	25.9	-0.2	21.1	0.7	4		-26	1	186
78717 SANTA ROSA DE COPAN	1447N	08847W	1079		892.9	1012.2	22.4	0.6	18.1	-0.9	8	57	20	4	253
78720 TEGUCIGALPA	1403N	08713W	1007		902.3	1010.5	23.2	0.2	16.4	0.8	3	51	17	4	260
78724 CHOLUTECA	1318N	08711W	48				30.8	0.6	25.4	1.5	0	0	-46	2	105
COSTA RICA															
78760 PUNTARENAS	0958N	08450W	3		1009.2	1009.2	28.8	0.0	28.9	-0.8	1	1	-44	2	271
78762 JUAN SANTAMARIA	1000N	08413W	939	30	909.0	1009.5	24.6	2.1	18.0	-0.9	4	46	-25	3	110
78767 PUERTO LIMON	1000N	08303W	3		1012.3	1012.3	24.8	-1.1	27.6	-0.7	18	242	-100	3	95
ST. MAARTEN, ST. EUST., SABA															
78866 JULIANA AIRPORT, ST. MAARTEN	1803N	06307W	9		1016.2	1016.7	26.2	-0.4	25.2		9	73	-3	4	265
ST. MARTIN, ST. BARTH., GUAD.															
78897 LE RAIZET, GUADELOUPE	1616N	06131W	8		1014.9	1015.8	25.3	0.2	23.5	-1.0	11	100	42	5	239
MARTINIQUE															
78925 LE LAMENTIN	1436N	06100W	4		1014.1	1014.9	25.2	0.4	26.6	2.0	16	98	20	4	243
CURACAO AND BONAIRE															
78988 HATO AIRPORT, CURACAO	1212N	06858W	67		1011.3	1012.2	27.1	-0.1	26.6	-0.9	0	T	-25	1	278
COLOMBIA															
80001 SAN ANDRES (ISLA)	1235N	08143W	6		1012.3	1012.4	26.9	-0.4	28.0	-0.4	6	10	-31	1	295
80002 PROVIDENCIA (ISLA)	1322N	08121W	6				27.0		26.9		6	14			285
S AMERICA															
COLOMBIA															
80009 SANTA MARTA/SIMON BOLIVAR	1108N	07414W	14		1006.6	1007.1	18.6		26.7		0	0			262
80022 CARTAGENA/CRESPO	1027N	07531W	12		1009.1	1009.3	27.0		29.5		0	0			250
80028 BARRANQUILLA/ERNESTOCORTISSO	1054N	07446W	30				26.9	-0.6	27.8	-0.4	0	0	-21	0	260
80084 APARTADO	0748N	07642W	30				27.4		30.0		18	166			133
80094 BUCARAMANGA/PALONEGRO	0706N	07312W	1189				21.5		22.1		11	131			138
80097 CUCUTA/CAMILO DAZA	0756N	07231W	317		975.1	1010.1	26.3	-0.5	26.8	1.6	2	7	-93	0	189
80099 ARAUCA/SANTIAGO PEREZ	0704N	07044W	128				29.2		24.7		8	43			186
80112 RIONEGRO/J.M. CORDOVA	0611N	07526W	2142		789.4		17.3		14.5		25	161			
80139 PUERTO CARRENO	0610N	06730W	55				30.6		24.2		5	77			210
80144 QUIBDO/EL CARANO	0543N	07637W	33				26.8		29.7		28	793			96
80210 PEREIRA/MATECANA	0449N	07548W	1342		864.4		21.7		17.9		23	208			151
80214 IBAGUE/PERALES	0426N	07509W	928				23.2		22.3		21	161			134
80222 BOGOTA/ELDORADO	0442N	07408W	2548		752.6		13.8	0.2	11.9	-0.8	17	33	-52	0	129
80234 VILLAVICENCIO/VANGUARDIA	0410N	07337W	431				25.6		25.2		23	278			126
80241 GAVIOTAS	0433N	07055W	167		987.2	1006.4	26.5	0.2	26.3	-0.9	19	202	-32	3	156
80251 BUENAVENTURA/COLPUERTOS	0355N	07705W	10				26.2		28.8		21	490			80
80259 CALI/PALMASECA	0333N	07623W	969		904.4		23.7	0.1	20.8	-0.5	6	54	-67	1	140
80315 NEIVA/LA MANGUITA	0258N	07518W	443				27.2	-0.2	24.2	-0.8	12	60	-87	1	58
80342 PASTO/ANTONIO NARINO	0125N	07716W	1826		819.9		19.0		17.2		18	106			125
80370 IPIALES/SAN LUIS	0049N	07738W	2961				10.6		11.0		19	85	-32	1	95
80398 LETICIA/VASQUEZ COBO	0410S	06957W	84		1000.2	1009.7	25.5	-0.4	29.4	0.5	21	358	64	4	155

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## SURFACE

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STATION	LATITUDE	LONGITUDE	ELEVATION	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE				
				MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAY 1 MM	TOTAL	DEPARTURE	QUINTILE			
<b>S AMERICA</b>																
<b>VENEZUELA</b>																
80403 CORO	1125N	06941W	17	1010.7	1012.7	27.6	0.0	25.5		1	7	-10	3 199 80			
80407 MARACAIBO-LA CHINITA	1034N	07144W	65	1001.5	1009.5	29.7	1.9	32.1	4.6	0	T	-28	1 221 123			
80410 BARQUISIMETO	1004N	06919W	614	942.2	1009.7	24.3	-0.1	23.3		1	4	-56	1 251 130			
80412 PTO. CABELLO, B.N.	1030N	06800W	2	1014.3	1014.5	26.4		29.0		1	3		252 120			
80413 MARACAY - B.A. SUCRE	1015N	06739W	437	965.1	1013.4	27.1	1.0	23.0	1.4	0	0	-29	1 278 124			
80415 CARACAS/MAIQUETIA AEROP. INTL	1036N	06659W	48	1006.5	1011.9	25.5	-0.3	30.5		1	2	-17	2 261 135			
80416 CARACAS/LA CARLOTA	1030N	06653W	835	918.4		21.6	-1.3	19.8	-0.6	1	10	-43	2 211 96			
80419 BARCELONA	1007N	06441W	7	1011.4	1012.2	24.7	-2.7	24.6	-2.1	0	T	-5	2 272 104			
80420 CUMANA	1027N	06411W	4	1012.5	1013.1	25.4		29.3		0	0		278 105			
80421 PORLAMAR(AP INTL DEL CARIBE)	1055N	06358W	19	1013.1	1015.3	27.3		29.2		0	0		294 110			
80423 GUIRIA	1035N	06219W	14	1010.9	1012.6	27.3	-0.1	26.4		3	14	-9	2 270 115			
80425 MENE GRANDE	0949N	07056W	28	1007.3	1010.4	28.4		28.0		3	30		223 130			
80426 VALERA	0921N	07037W	582	947.2	1011.2	25.2		25.8		9	71		179 115			
80427 ACARIGUA	0933N	06914W	225	986.6	1011.7	27.6		22.1		2	14		200 115			
80428 GUANARE	0901N	06944W	163	992.8	1011.1	28.4		23.1		4	52		186 120			
80435 Maturin	0945N	06311W	66	1002.3	1009.9	24.5	-2.3	21.8		3	24	-15	3 229 100			
80438 MERIDA	0836N	07111W	1498	852.0	1517. Y	19.7	0.5	17.1	-0.9	13	167	6 3	235 126			
80444 CIUDAD BOLIVAR	0809N	06333W	48	1004.7	1010.0	27.4	-1.2	22.5	-3.2	1	1	-35	2 248 107			
80447 SAN ANTONIO DEL TACHIRA	0751N	07227W	378	967.7	1010.0	24.7	-1.1	23.8	-0.2	5	11	-53	0 157 109			
80450 SAN FERNANDO DE APURE	0754N	06725W	48	1003.6	1009.1	27.1	-1.6	26.5	0.9	1	49	-22	3 272 128			
80453 TUMEREMO	0718N	06127W	181		1012.5	25.3	-0.3	24.4		8	65	-5	3 185 100			
80457 PUERTO AYACUCHO	0536N	06730W	74	1002.7	1010.3	27.3	-0.1	22.2	-4.8	5	36	-102	0 207 115			
80475 STO. DOMINGO (B.A.)	0735N	07204W	327	971.8	1008.8	22.7		20.3		12	51		103 110			
<b>SURINAME</b>																
81225 ZANDERIJ	0527N	05512W	15	1009.6	1012.0	26.1	0.5	27.3	6.1	14	232	28	3 161			
<b>FRENCH GUIANA</b>																
81405 CAYENNE/ROCHAMBEAU	0450N	05222W	9	1011.0	1012.1	26.3	0.4	29.1	0.5	26	390	-39	3 121 93			
<b>BRAZIL</b>																
82098 MACAPA	0002N	05103W	15	30	1008.8	1010.6	25.7		30.3	25	374					
82106 S.GABRIEL DO CACHOEIRAI(UAU.)	0008S	06705W	90	30	999.7	1009.4	26.6	1.1	30.1	2.7	13	215	-75 2			
82191 BELEM	0127S	04828W	24	30	1010.6	1011.2	25.7	-0.1	29.9	0.6	27	544	225 6			
82212 FONTE BOA	0232S	06610W	55	30	1003.4	1009.7	26.6		31.4	10	354		3			
82246 BELTERRA	0238S	05457W	176	30	992.6	1012.6	24.4		28.7	22	294					
82397 FORTALEZA	0344S	03833W	19	30	1007.2	1010.3	25.8	-0.6	30.0	1.2	23	310	-23 2			
82410 BENJAMIN CONSTANT	0423S	07002W	65	30	1004.4	1011.8	27.6	1.6	30.2	2.5	16	260	-82 2			
82425 COARI	0405S	06305W	46	30	1003.7	1009.2	26.7	-0.1	30.8	1.0	22	337	68 4			
82445 ITAITUBA	0416S	05558W	45	30	1007.4	1012.4	26.4		32.6	17	258					
82562 MARABA	0521S	04909W	102	30	998.3	1009.4	26.2		29.9	24	463					
82578 TEREZINA	0505S	04249W	74	30	1000.9	1011.1	25.7	-0.5	29.8	1.2	21	387	132 5			
82586 QUIXERAMOBIM	0512S	03918W	211	30	986.3	1010.2	25.4	-1.2	27.1	1.3	16	305	141 5			
82640 JACAREACANGA	0616S	05744W	98	30	997.9	1009.2	25.9		30.4	18	172					
82704 CRUZEIRO DO SUL	0738S	07240W	170	30	986.8	1006.4	24.1	-0.7	27.5	-0.7	15	237	28 4			
82723 LABREA	0715S	06450W	60	30	1002.3	1009.3	24.8		29.6	20	266					
82784 BARBALHA	0719S	03918W	409	30	964.3	1010.9	24.3		25.6	19	283					
82825 PORTO VELHO	0846S	06305W	95	30	999.8	1006.9	25.4	-0.4	29.7	0.0	18	316	86 5			
82861 CONCEICAO DO ARAGUAIA	0815S	04912W	160	30			25.6	-0.4		22	287		88 5			
82915 RIO BRANCO	0958S	06748W	136	30			24.7		28.3	21	303					
82983 PETROLINA	0923S	04029W	370	30	968.9	1010.2	27.0	0.8	23.3	0.6	5	12	-79			
83096 ARACAJU	1055S	03703W	6	30	1010.0	1010.7	26.8	0.2	29.2	0.9	23	316	125 5			
83186 JACOBINA	1111S	04028W	484	30	956.4		25.3		22.1	4	31		1			
83208 VILHENIA	1244S	06008W	652	30	942.4	1010.1	24.0		25.9	15	171					
83229 SALVADOR	1301S	03831W	51	30	1004.6	1010.6	26.0	0.1	29.4	3.2	24	410	136 5			
83235 TAGUATINGA	1216S	04626W	660	30	943.8	1010.2	25.2		24.3	10	107		3			
83236 BARREIRAS	1209S	04500W	440	30	960.4	1009.5	24.8		22.6	8	91					
83242 LENCOIS	1234S	04123W	438	30	962.9	965.6	23.4		25.5	12	94					
83264 VERA (GLEBA CELESTE)	1212S	05630W	415	30	968.6	1009.9	25.0		29.5	19	102					
83288 BOM JESUS DA LAPA	1316S	04325W	440	30	960.1	1011.7	26.6	0.7	18.4	-4.0	2	16	-196			
83361 CUIABA	1533S	05607W	179	30	993.2	1010.4	26.5	0.7	30.6	4.9	14	171	46 4			
83377 BRASILIA	1547S	04756W	1158	30	886.4	1011.3	21.7	1.0	17.9	-1.0	5	49	-77			
83492 TEOFILO OTONI	1751S	04130W	356	30	974.5	1012.6	22.7		21.6	7	55		2			
83498 CARAVELAS	1744S	03915W	3	30	1013.2	1013.7	26.7	1.8	23.0	-3.8	14	161	38 4			
83512 COXIM	1830S	05446W	286	30	979.2	1013.2	25.8		25.4	13	111					

S AMER-BRAZIL









SW PAC-FRENCH POLY.

## SURFACE

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STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE	
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAYS 1 MM	TOTAL	DEPARTURE	QUINTILE	TOTAL
SW PACIFIC	0°	0°	3	mb	mb	°C	°C	mb	mb	mm	mm	hr	%		
FRENCH POLY. (AUSTRAL ISL)															
91954 TUBUI	2321S	14929W	3	1014.9	1015.2	26.1	1.4	27.9	2.9	13	164	-25	3	242	135
91958 RAPA	2737S	14420W	2	1016.1	1016.4	24.1	1.8	25.3	3.4	17	212	-39	3	192	150
NEW ZEALAND															
93012 KAITAIA	3508S	17316E	87	1011.2	1021.7	16.5		14.6		8	100		3	151	95
93119 AUCKLAND AIRPORT	3701S	17448E	6	1021.2	1022.0	17.5	1.0	15.2	0.1	8	99	-12	3	132	80
93291 GISBORNE AERODROME	3840S	17759E	8	1019.9	1020.9	14.6	0.0	11.7	-1.6	2	20	-67	0	166	105
93308 NEW PLYMOUTH AERODROME	3901S	17411E	36	1017.7	1021.5	14.7	0.0	13.5	-0.2	7	84	-37	2	193	117
93614 HOKITIKA AERODROME	4243S	17059E	40	1016.0	1021.4	12.3	-0.1	12.1	-0.3	11	171	-64	2	144	103
93780 CHRISTCHURCH AIRPORT	4329S	17233E	34	1014.7	1019.0	11.7	-0.5	11.2	0.1	5	45	-16	3	198	138
93844 INVERCARGILL AERODROME	4625S	16820E	1	1018.3	1018.5	10.9	0.6	10.3	-0.3	10	89	-15	3	121	115
93944 CAMPBELL ISLAND	5233S	16909E	19	1005.1	1007.4	7.6	0.2	9.1	0.0	22	121	3	3	27	73
93986 CHATHAM ISLAND	4357S	17634W	48	1010.5	1016.4	12.1	-0.3	12.2	0.0	13	95	11	4	92	89
93997 RAOUl ISLAND, KERMADEC IS.	2915S	17755W	49	1012.3	1018.1	19.9	-0.6	17.6	-2.1	10	75	-47	2	178	108
PAPUA NEW GUINEA															
94014 MADANG M.O.	0513S	14548E	12	1006.9	1007.5	27.1	0.5	30.0	1.4	24	598	170	5	125	78
94027 LAE M.O.	0644S	14700E	9	1006.7	1007.7	26.9	0.2	29.1	0.2	19	478	85	4		
94035 PORT MORESBY M.O.	0926S	14713E	47	1001.6	1006.9	27.0	0.2	28.9	0.9	19	229	111	5	169	85
94044 MOMOTE M.O.	0204S	14726E	5	1006.9	1007.5	27.5	0.2	30.0	-0.5	23	436	152	6	114	85
94085 RABAUL M.O.	0413S	15211E	9	1006.5	1007.5	27.1	0.1	29.8	-0.8	14	107	-110	1	145	
AUSTRALIA															
94120 DARWIN AIRPORT	1224S	13052E	30	1004.2	1007.6	28.5	0.2	29.3	4.4	17	185	87	5	218	86
94150 GOVE AIRPORT	1216S	13649E	54	1001.8	1007.9	26.9		29.8		18	244			173	
94175 THURSDAY ISLAND	1035S	14213E	61	1000.7	1007.6	27.5	0.3	29.8	1.5	13	386	184	5		
94203 BROOME AIRPORT	1757S	12213E	9	1007.6	1008.6	28.6	0.1	20.2	-0.1	3	24	0	4		
94212 HALLS CREEK AIRPORT	1813S	12739E	424	961.9	1009.2	27.9	0.7	14.4	1.5	2	11	-14	3		
94238 TENNANT CREEK AIRPORT	1938S	13410E	376	968.1	1010.3	26.3	0.9	13.1	1.5	3	26	16	5	293	105
94287 CAIRNS AIRPORT	1653S	14545E	7	1008.9	1009.7	25.7	0.5	23.4	-0.6	19	551	358	6	170	
94294 TOWNSVILLE AIRPORT	1915S	14645E	6	1010.2	1010.9	25.4	0.7	23.4	2.6	8	172	112	5	202	80
94299 WILLIS ISLAND	1618S	14959E	9	1007.3	1008.3	26.3	-0.5	29.3	2.1	18	393	289	6		
94300 CARNARVON AIRPORT	2452S	11340E	7	1011.9	1012.7	24.7	1.2	17.1	1.1	2	12	-1	4		
94302 LEARMONT AIRPORT	2214S	11405E	6	1010.5	1011.1	27.7		18.5		0	T		2		
94312 PORT HEDLAND AIRPORT	2022S	11837E	11	1008.9	1009.6	27.7	-0.3	17.3	1.6	1	60	37	5		
94326 ALICE SPRINGS AIRPORT	2348S	13354E	544	952.9	1015.1	19.3	-1.4	12.9	2.7	4	14	-2	4	258	86
94332 MT ISA AIRPORT	2039S	13929E	342	971.8	1009.9	26.2		15.7		2	3	-19	3	267	90
94346 LONGREACH AIRPORT	2326S	14416E	193	990.2	1012.3	23.7	0.0	19.4	5.4	5	211	178	6		
94367 MACKAY	2107S	14913E	31	1008.1	1011.7	23.6	0.4	24.9	2.9	17	521	364	5		
94380 GLADSTONE	2351S	15116E	76	1004.7	1013.5	23.7	-0.1	22.8	3.6	13	235	200	6		
94403 GERALDTON AIRPORT	2847S	11442E	34	1010.6	1014.6	21.8	0.7	15.2	0.9	4	17	-12	3		
94430 MEEKATHARRA AIRPORT	2636S	11831E	518	955.7	1013.9	23.0	0.2	12.2	1.8	3	66	50	6		
94461 GILES	2502S	12818E	599	947.1	1013.8	20.9	-2.0	11.0	1.7	2	9	-10	3	303	111
94510 CHARLEVILLE AIRPORT	2625S	14616E	304	979.5	1014.4	21.9	1.0	16.6	4.4	9	76	46	5		
94527 MOREE	2928S	14951E	212	991.5	1016.1	20.2	0.4	16.7	3.8	9	96	72	6	188	
94578 BRISBANE AIRPORT	2726S	15305E	6	1015.1	1015.7	22.1	0.2	20.4	3.2	12	502	436	6	187	85
94610 PERTH AIRPORT	3156S	11557E	12	1012.9	1016.3	20.2	1.5	13.4	0.0	4	45	-3	3	217	100
94637 KALGOORLIE AIRPORT	3046S	12127E	360	975.8	1017.2	18.9	0.5	11.6	0.0	5	53	29	5		
94638 ESPERANCE	3349S	12153E	26	1015.6	1018.7	18.1	0.1	13.7	-0.2	15	85	24	5		
94646 FORREST AIRPORT	3050S	12806E	160	999.3	1018.2	18.4	0.4	11.2	-0.4	6	28	11	4		
94653 CEDUNA AIRPORT	3207S	13342E	17	1016.8	1018.8	17.3	-0.3	13.2	0.8	4	17	-5	3	223	100
94659 WOOMERA AERODROME	3109S	13648E	167	998.4	1018.0	18.8	-0.3	14.0	2.8	3	26	11	4	269	106
94672 ADELAIDE AIRPORT	3456S	13831E	4	1018.5	1019.0	17.3	0.2	12.5	0.3	5	30	-15	2	216	120
94693 MILDURA AIRPORT	3414S	14205E	53	1012.2	1018.5	16.9	0.0	14.1	2.3	1	59	34	5		
94711 COBAR	3129S	14549E	265	986.4	1017.2	19.2	0.2	15.3	4.0	4	26	3	4	227	
94767 SYDNEY AIRPORT	3357S	15111E	3	1018.7	1019.2	19.9	1.5	17.9	3.7	17	326	243	5	141	75
94776 WILLIAMTOWN AERODROME	3247S	15149E	11	1018.1	1018.2	19.8	1.5	18.6	3.3	16	164	73	5	145	70
94791 COFFS HARBOUR AIRPORT	3019S	15307E	5	1016.9	1017.6	20.9	1.4	19.0	2.5	15	378	202	5	159	70
94802 ALBANY AIRPORT	3457S	11748E	69	1009.6	1017.8	16.9	0.3	14.0	0.1	14	118	41	5		
94821 MT GAMBIER AIRPORT	3744S	14047E	69	1010.5	1018.8	15.7	1.7	13.6	1.4	8	48	-15	3	139	100
94865 LAVERTON AERODROME	3751S	14444E	14	1016.5	1019.0	15.6	0.3	14.3	2.0	6	73	19	5	158	110
94907 EAST SALE AERODROME	3806S	14708E	8	1018.8	1019.8	15.5	1.0	14.4	2.1	7	56	15	4	152	85
94910 WAGGA AIRPORT	3509S	14727E	213	993.8	1018.9	17.0	1.3	15.3	3.4	12	103	54	5	183	
94926 CANBERRA AIRPORT	3518S	14911E	577	952.4	1019.4	14.9	1.9	13.5	2.8	10	187	140	6	153	73
94975 HOBART AIRPORT	4250S	14730E	3	1019.2	1019.6	15.0	1.9	11.5	0.7	5	21	-34	2		

SW PAC-AUSTRALIA

## SURFACE

APRIL 1989

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE		
					MEAN STATION	MEAN SEA LEVEL	MEAN	DEPARTURE	MEAN	DEPARTURE	DAY 1 MM	TOTAL	MM	DEPARTURE	
<b>SW PACIFIC</b>															
AUSTRALIA (ADDITIONAL IS.)	0°	0°	3		mb	mb	°C	°C	mb	mb	mm	mm	mm	hr	%
94995 LORD HOWE ISLAND	3131S	15905E	46		1017.6	1018.3	21.3	0.6	20.0	2.2	20	98	-8	3	
94996 NORFOLK ISLAND AIRPORT	2902S	16756E	109		1005.4	1018.1	21.1	0.9	18.2	0.4	15	187	66	5	196
94998 MACQUARIE ISLAND	5429S	15856E	6		1004.4	1005.1	6.0	0.8	8.2	-0.3	20	123	35	5	110
<b>INDONESIA (SUMATRA)</b>															
96221 PALEMBANG/TALANGBETUTU	0254S	10442E	10		1007.8	1009.3	27.7	0.8	30.4		15	186	-131	1	194
96295 TELUKBETUNG/BERANTI	0516S	10511E	96				24.9	-1.8	27.5		12	559	385	6	174
<b>MALAYSIA (SABAH &amp; SARAWAK)</b>															
96413 KUCHING	0129N	11020E	27	30	1007.1	1009.6	26.1	-0.2	28.7	-0.5	18	239	-53	2	115
96441 BINTULU	0312N	11302E	5	30	1008.9	1009.4	26.6	0.2	30.4	-0.1	17	314	44	4	115
96471 KOTA KINABALU	0556N	11603E	3	30	1008.3	1008.6	27.2	0.0	29.4	0.0	13	135	21	4	100
96481 TAWAU	0416N	11753E	20	30	1006.5	1008.8	26.7	-0.3	29.5	-0.6	9	76	-24	2	100
<b>INDONESIA (KALIMANTAN)</b>															
96509 TARAKAN/JUWATA	0320N	11734E	6		1007.8	1008.8	26.7	-0.2	29.0						
<b>ISLANDS</b>															
96996 COCOS ISLAND AIRPORT	1211S	09649E	3		1009.1	1009.4	27.3	0.1	29.7	0.9	16	232	-6	3	
<b>INDONESIA (SULAWESI)</b>															
97072 PALU/MUTIARA	0041S	11944E	6		996.9	1010.0	26.7		26.6		13	53			
<b>INDONESIA (INUSATENGGARA)</b>															
97240 AMPENAN/SELAPARANG	0832S	11604E	3		1007.4	1009.4	26.4	-0.3	28.9		11	159	77	5	
97340 WAINGAPU/MAU HAU	0940S	12020E	12		1007.3	1008.8	26.5	-1.2	28.3		9	92	46	5	166
<b>INDONESIA (MALUKU/IRIAN JAYA)</b>															
97686 WAMENA/WAMENA	0404S	13857E	1660		832.2		19.1		18.4		22	195			
<b>PHILIPPINES</b>															
98135 BASCO	2027N	12158E	11		1009.1	1010.3	26.8	0.5	24.9	-2.7	6	73	-8	3	
98223 LAOAG	1811N	12032E	5		1009.9	1010.5	28.2		29.8		0	0	0	0	299
98232 APARRI	1822N	12138E	4		1010.9	1011.2	28.5	0.8	31.6	3.4	1	9	-24	2	80
98233 TUGUEGARAO	1737N	12144E	24		1002.9	1009.9	29.4		28.1		2	7			
98325 DAGUPAN	1603N	12020E	2		1008.6	1008.8	29.7	0.3	29.8	2.5	3	18	-56	1	
98328 BAGUIO	1625N	12036E	1501		951.0	1007.7	20.9		20.6		9	51			
98429 MANILA INTL AIRPORT	1431N	12100E	15		1008.3	1010.7	29.4	0.4	29.8	3.6	0	1	-16	2	
98444 LEGASPI	1308N	12344E	17		1006.8	1008.7	28.1	0.9	31.6	2.8	15	252	85	5	
98550 TACLOBAN	1115N	12500E	21		1008.4	1008.7	27.4	-0.1	31.6	2.9	19	150	20	4	
98637 ILOILO	1042N	12234E	8		1006.8	1007.7	28.9	0.7	31.6	3.1	9	69	24	4	
98644 TAGBILARAN	0936N	12351E	6		1006.9	1007.6	27.9		31.6		14	159			
98646 MACTAN	1018N	12358E	9		1008.1	1009.5	18.8		29.8		5	37			
98653 SURIGAO	0948N	12530E	1		1002.1	1008.4	27.0	0.0	29.8	0.9	17	239	-7	3	
98836 ZAMBOANGA	0654N	12204E	6		1006.2	1006.9	27.8	0.2	29.8	0.7	11	92	33	5	182
															175

S AMER-BRAZIL

## SURFACE LATE REPORTS

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE	
					MEAN STATION mb	MEAN SEA LEVEL mb	MEAN °C	DEPARTURE °C	MEAN mb	DEPARTURE mb	DAYS 1 MM TOTAL	DEPARTURE mm	QUINTILE hr TOTAL	% OF AV.
APR 1988	0°	0°	0	30										
S AMERICA														
BRAZIL														
82571 BARRA DO CORDA	0530S	04516W	153	30	991.9	1011.8	25.0	-0.4	29.5	-0.3	18	275	94	5
83781 SAO PAULO	2330S	04637W	792	30	925.1	1013.5	21.2	2.1	19.5	1.5	9	96	23	4
NOV 1988														
ASIA														
INDIA														
42933 AKOLA	2042N	07702E	282	29	982.0	1013.7	23.5	-0.2	14.7	0.2	1	5	-12	4
DEC 1988														
AFRICA														
MADAGASCAR														
67019 ANALALAVA	1438S	04746E	57	31	1005.7	1012.3	27.3	0.5	25.0	-2.8	9	70	-241	0
67027 MAJUNGA	1540S	04621E	18	31	1009.6	1011.7	28.0	0.6	28.8	0.2	14	369	106	4
67161 TULEAR	2323S	04344E	8	31	1011.2	1012.1	25.7	-1.0	26.8	0.4	4	76	-24	3
JAN 1989														
EUROPE														
SYRIAN ARAB REPUBLIC														
40001 KAMISHLI	3703N	04113E	455	31	965.3	1020.3	5.1	-1.1	4.2	-2.3	2	4	-80	83
40007 ALEPO	3611N	03713E	393	31	976.0	1024.0	4.2	-1.5	5.2	-2.0	1	4	-58	67
40022 LATTAKIA	3532N	03546E	7	31	1021.4	1022.3	9.7	-2.1	6.8	-1.8	3	72	-77	65
40030 HAMA	3508N	03643E	309	31	986.4	1024.3	4.4	-2.9	6.2	-1.2	6	28	-35	2
40045 DEIR EZZOR	3519N	04009E	212	31	996.2	1022.3	4.5	-2.4	5.3	-2.0	1	12	-20	1
40061 PALMYRA	3433N	03818E	404	31	973.4	1022.4	4.9	-2.0	5.7	-1.5	3	21	-1	4
40080 DAMASCUS NEW INTL AIRPORT	3325N	03631E	611	31	948.8	1022.0	3.4	-3.4	6.3	-0.7	5	26	-18	2
AFRICA														
MADAGASCAR														
67019 ANALALAVA	1438S	04746E	57	31	1002.4	1009.0	25.6	-1.1	27.2	-1.0	26	528	74	4
67073 MAINTIRANO	1803S	04402E	23	31	1004.5	1007.1	26.8	-0.3	28.4	-0.8	19	408	55	3
67143 MANANJARY	1212S	04822E	6	31	1008.1	1008.8	26.3	0.3	29.4	0.6	17	588	246	5
MOZAMBIQUE														
67215 PEMBA	1258S	04030E	50		996.6	1007.8	26.0	-1.0	28.3	-0.8	15	220	67	5
67217 LICHINGA	1317S	03515E	1365		862.8	1492	19.2	-0.2	19.4	0.2	24	400	174	6
67237 NAMPULA	1506S	03917E	441		957.8	1007.8	24.3	-0.6	24.7	0.0	17	184	-59	2
67261 TETE	1611S	03335E	150		990.8	1007.8	28.2	0.6	26.9	0.1	15	233	61	4
67283 QUELIMANE	1753S	03653E	16		1007.1	1009.0	26.7	-0.8	27.4	-1.5	15	154	-103	2
67297 BEIRA	1948S	03454E	16		1007.1	1008.9	27.3	0.0	25.9	-2.4	13	155	-118	2
67323 INHAMBANE	2352S	03523E	15		1009.3	1010.9	26.1	-0.5	24.8	-2.1	9	45	-111	1
67341 MAPUTO/MAVALANE	2555S	03234E	44		1007.2	1012.4	26.2	0.2	24.3	-1.5	8	30	-143	1
S AMERICA														
BRAZIL														
82331 MANAUS	0308S	06001W	72	30	1004.9	1010.5	25.6	-0.5	29.0	0.7	24	377	105	5
MAR 1989														
EUROPE														
FRANCE														
07761 AJACCIO	4155N	00848E	9		1015.6	1016.3	12.0	1.9	12.0	1.9	4	8	-51	1

AFRICA-EGYPT

## SURFACE LATE REPORTS

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION			SUN-SHINE	
					MEAN mb	MEAN STATION	MEAN mb	SEA LEVEL	MEAN °C	DEPARTURE	MEAN mb	DEPARTURE	MEAN mm	DEPARTURE	QUINTILE
MAR 1989	0°	0°	3												
AFRICA															
EGYPT															
62306 MERSA MATRUH	3120N	02713E	30	1012.2	1015.6	14.8	-0.4	11.4	0.2	3	11	0	3	276	110
62366 CAIRO	3008N	03124E	74	1005.8	1014.7	17.6	0.0	14.0	4.8						
62378 HELWAN	2952N	03120E	141	997.6	1014.6	17.4	0.1	12.8	4.0	3	8	6	5	269	94
62414 ASSWAN	2358N	03247E	194	989.5	1012.2	26.3	4.3	11.3	5.4	0	0	0	0	307	
62432 DAKHLA	2529N	02900E	111	1002.6	1015.8	18.3	0.0	7.6	1.5	0	0	0	0		

S AMER-BRAZIL

## SURFACE CORRECTIONS

STATION	LATITUDE	LONGITUDE	ELEVATION	DAYS OBS.	PRESSURE		TEMPERATURE		VAPOR PRESSURE		PRECIPITATION		SUN-SHINE	
					MEAN STATION mb	MEAN SEA LEVEL mb	°C	DEPARTURE °C	mb	DEPARTURE mb	DAYS 1 MM TOTAL	mb	DEPARTURE mm	QUINTILE TOTAL
MAR 1989 S AMERICA BRAZIL 83229 SALVADOR	0° 1301S	0° 03831W	51								138	-6	3	

EUROPE-SWEDEN

## UPPER AIR

APRIL 1989

LEVEL			TEMPERATURE			VECTOR WIND			LEVEL			TEMPERATURE			VECTOR WIND			LEVEL			TEMPERATURE			VECTOR WIND				
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	% STEADINESS	DIR	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	% STEADINESS	DIR	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	% STEADINESS	DIR	SPEED		
mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps		
EUROPE - SWEDEN																												
SUNDSVALL-HARNOSAND FLYGPLAT	02365	6232N	01727E	OB 3					02465	5921N	01757E	OB 3						02527	5740N	01218E	OB 3							
030	23765	2	-56.1	29.5					030	20510	5	-56.0	30.3					030	23751	3	-56.8	27.8	9	34	7	2		
050	20520	1	-55.8	28.6					050	20512	0	-55.7	28.6					050	20512	0	-55.7	28.6						
100									100									100										
150	13466	0	-52.0	26.6					150	13465	0	-51.7	28.2	7	25	141	3	150	13452	0	-51.0	28.6	0	52	193	6		
200	11601	0	-53.0	20.5					200	11600	0	-53.0	22.7	2	35	160	6	200	11577	1	-51.7	25.0	1	40	187	6		
300	9001	0	-50.2	11.6					300	8986	0	-50.1	12.1	0	39	169	10	300	8950	0	-49.6	14.7	0	34	177	7		
500	5482	0	-25.4	12.2	8	64	186	10	500	5476	0	-25.8	9.8	0	41	162	8	500	5446	0	-26.3	10.5	0	35	184	6		
700	2958	0	-9.6	12.7	6	61	178	7	700	2955	0	-9.9	13.6	0	37	170	4	700	2929	0	-10.5	13.0	0	45	181	6		
850	1438	0	2.5	7.3	7	58	169	6	850	1430	0	1.7	6.8	0	44	183	4	850	1413	0	2.1	6.9	3	50	157	6		
1006	*	6	3.4	3.6					1002	*	22	6.1	5.1					1002	*	155	5.6	5.3						
EUROPE - FINLAND									EUROPE - FINLAND									EUROPE - FINLAND										
SODANKYLA	02836	6722N	02639E	OB 1					JYVASKYLA	02935	6224N	02541E	OB 1					KOPIOINEN	02963	6049N	02330E	OB 1						
030	23790	0	-55.0			0	56	66	3	030	23767	1	-56.0		1	67	67	3	030	23753	0	-56.4		0	66	74	3	
050	20526	0	-54.7			0	26	350	1	050	20516	1	-55.6		1	38	57	2	050	20506	0	-56.1		0	30	62	1	
100	16087	0	-53.7			0	34	273	3	100	16090	0	-53.9		0	11	215	1	100	16086	0	-54.2		0	23	197	2	
150	13472	0	-52.2			0	34	271	4	150	13476	0	-52.2		0	19	202	2	150	13475	0	-52.4		0	33	195	4	
200	11613	0	-53.8			0	32	263	5	200	11620	0	-54.0		0	22	201	4	200	11618	0	-54.2		0	34	194	5	
300	9013	0	-50.7	8.0	0	33	247	8	300	9016	0	-50.2	9.3	0	20	191	5	300	9014	0	-50.1	9.5	0	34	182	8		
500	5498	0	-25.0	8.2	0	36	234	6	500	5502	0	-25.1	9.9	0	29	187	5	500	5498	0	-25.1	10.0	0	37	177	6		
700	2975	0	-9.7	8.5	0	46	222	6	700	2978	0	-9.3	10.8	0	40	170	5	700	2971	0	-9.0	11.6	0	46	171	5		
850	1455	0	-2.9	5.2	0	57	211	5	850	1456	0	-2.1	7.1	0	44	158	5	850	1446	0	-1.5	6.9	0	47	161	5		
997	*	179	1.6	4.2					1001	*	145	3.7	6.1					1004	*	103	5.3	4.9						
EUROPE - UNITED KINGDOM									EUROPE - UNITED KINGDOM									EUROPE - UNITED KINGDOM										
LERWICK	03005	6008N	00111W	OB 3					STORNOWAY	03026	5813N	00619W	OB 3					AUGHTON	03322	5333N	00255W	OB 3						
030	23715	0	-55.8			0	37	104	2	030	23705	3	-55.7		1	44	117	2	030	23699	0	-56.1		0	37	149	2	
050	20459	0	-54.9			0	40	157	2	050	20446	2	-54.6		0	44	146	2	050	20447	0	-55.4		0	54	177	3	
100	16013	0	-52.7			0	55	177	4	100	15995	1	-52.6		0	38	180	3	100	16010	0	-53.4		0	49	218	3	
150	13384	0	-51.0			0	42	178	4	150	13371	1	-51.3		0	26	217	3	150	13390	0	-51.5		0	34	238	3	
200	11512	0	-50.9			0	28	163	4	200	11500	1	-51.5		0	15	214	2	200	11522	0	-51.5		0	21	256	3	
300	8890	0	-50.3			0	7	181	2	300	8886	1	-51.1		0	12	217	3	300	8907	0	-50.9		0	8	230	2	
500	5406	0	-27.5	8.7	0	8	142	1	500	5402	1	-27.4	9.0	0	10	186	2	500	5415	0	-26.9	9.3	0	8	214	1		
700	2906	0	-11.5	7.9	0	21	139	2	700	2901	1	-11.5	7.0	0	6	225	1	700	2907	0	-10.5	8.2	0	5	252	1		
850	1394	0	-3.9	4.2	0	20	124	2	850	1391	1	-4.2	4.3	0	6	135	1	850	1392	0	-3.2	4.1	0	2	180	0		
1001	*	84	5.0	3.0					1009	*	13	5.5	3.1					1003	*	56	6.6	4.1						
EUROPE - UNITED KINGDOM									EUROPE - DENMARK (GREENLAND)									EUROPE - DENMARK (GREENLAND)										
CRAWLEY	03774	5105N	00013W	OB 3					EGEDESMINDE	04220	6842N	05245W	OB 3					NARSSARSSUAQ	04270	6111N	04526W	OB 3						
030	23703	0	-56.3			0	43	191	2	030	23766	0	-51.8		0	28	168	2	030	23781	2	-53.0		2	24	196	1	
050	20457	0	-55.6			0	65	198	4	050	20443	0	-50.4		0	54	194	4	050	20481	0	-52.4		0	54	224	3	
100	16026	0	-53.6			0	80	223	5	100	15902	0	-48.9		0	56	208	4	100	15976	0	-50.1		0	78	244	6	
150	13409	0	-51.7			0	53	239	5	150	13234	0	-48.1		0	65	224	5	150	13220	0	-48.8		0	74	251	7	
200	11541	0	-51.7			0	37	239	5	200	11344	0	-49.5		0	64	228	6	200	11434	0	-50.2		0	66	258	9	
300	8929	0	-51.1			0	28	215	7	300	8704	0	-50.5		0	59	238	8	300	8794	0	-49.4		0	47	270	10	
500	5425	0	-25.9	9.2	0	26	247	4	500	5267	0	-33.2	9.3	0	49	197	5	500	5312	0	-30.0	11.8	0	32	293	5		
700	2913	0	-9.8	8.5	0	26	259	3	700	2829	0	-18.9	10.6	0	46	182	3	700	2849	0	-15.9	12.6	0	19	334	2		
850	1393	0	-1.8	4.5	0	12	289	1	850	1363	0	-12.1	10.1	0	32	163	2	850	1365	0	-8.6	9.7	0	44	83	2		
992	*	144	6.5	3.5					1009	*	66	-9.2	3.1					1011	*	4	-6.5	6.7						
EUROPE - DENMARK (GREENLAND)									EUROPE - DENMARK (GREENLAND)																			

EUROPE—DENMARK FAROE IS.

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND						
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEN POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEN POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEN POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	
mb	gpm	°C	°C	%	°	mps	mb	gpm	°C	°C	%	°	mps	mb	gpm	°C	°C	%	°	mps	mb	gpm	°C	°C	%	°	mps
EUROPE - DENMARK & FAROE IS. THORSHAVN 06011 6201N 00646W 0B 3								EUROPE - DENMARK & FAROE IS. KOBENHAVN/JAEGERSborg 06181 5546N 01232E 0B 3								EUROPE - SWITZERLAND LIECHTENSTEIN PAYERNE 06610 4649N 00657E 0B 3											
030	23797	1	-54.3		1	55	118	2	030	23791	0	-56.2		0	28	59	1	030	23732	1	-57.1		4	67	268	3	
050	20522	0	-53.5		0	51	142	3	050	20542	0	-55.4		0	33	206	2	050	20499	0	-56.8		2	73	232	4	
100	16043	0	-51.1		0	48	177	4	100	16096	0	-52.8		0	59	209	4	100	16090	0	-54.1		0	86	231	8	
150	13397	0	-49.7		0	46	195	5	150	13465	0	-50.6		0	58	206	5	150	13480	0	-52.1		0	77	234	8	
200	11517	0	-50.4		0	38	203	5	200	11592	0	-51.4		0	55	207	7	200	11618	0	-52.5		5.8	73	230	10	
300	8892	0	-50.0		0	33	218	6	300	8965	0	-49.1		0	52	211	10	300	9013	0	-50.8		4.0	48	208	11	
500	5400	0	-27.3	10.6	0	33	204	5	500	5452	0	-25.9	10.4	0	50	204	8	500	5494	0	-23.8	5.4	0	61	216	9	
700	2899	0	-12.1	11.6	0	38	193	4	700	2932	0	-9.6	11.2	0	48	192	5	700	2952	0	-7.3	3.8	0	60	221	6	
850	1391	0	-4.6	5.4	0	22	170	2	850	1410	0	-1.5	7.4	0	42	160	4	850	1412	0	1.9	3.1	0	50	236	4	
1005	* 55		4.9	3.4					1007	* 40		7.5	5.5					952	* 491		7.8	3.7					
EUROPE - SPAIN LA CORUNA 08001 4322N 00825W 0B 3								EUROPE - SPAIN MADRID/BARAJAS 08221 4030N 00335W 0B 3								EUROPE - SPAIN MURCIA 08430 3800N 00110W 0B 3											
030	23778	10	-54.9		0	76	246	3	030	23817	0	-54.8		0	89	246	4	030	23817	28	-54.9	31.5	9	53	261	3	
050	20521	2	-56.1		0	85	241	3	050	20558	0	-55.9		0	90	234	5	050	20566	5	-56.6	31.0	0	85	237	4	
100	16121	0	-56.7		0	88	284	9	100	16165	0	-56.6		0	89	264	11	100	16201	0	-58.3	29.9	0	89	261	13	
150	13533	0	-54.4		0	85	289	14	150	13581	0	-54.2		0	83	276	17	150	13630	0	-55.5	30.2	0	89	268	21	
200	11695	0	-55.8		0	84	298	20	200	11741	0	-56.3		0	82	285	21	200	11802	0	-56.8	21.3	0	84	274	25	
300	9091	0	-48.4	11.3	0	76	294	21	300	9138	0	-47.7	12.7	0	70	287	22	300	9193	0	-47.0	13.5	0	76	278	23	
500	5537	0	-22.3	12.9	0	75	295	14	500	5569	0	-21.0	13.9	0	69	287	15	500	5610	0	-19.4	16.7	1	77	277	15	
700	2986	0	-6.5	9.9	0	67	292	9	700	3001	0	-5.4	11.2	0	61	284	8	700	3025	0	-2.8	14.6	1	77	284	10	
850	1447	0	1.3	3.6	0	59	285	2	850	1451	0	4.1	6.6	0	59	276	5	850	1462	0	6.1	9.5	2	65	288	6	
1006	* 67		11.4	4.3					939	* 633		11.0	7.3					1005	* 62		15.5	8.1					
EUROPE - PORTUGAL LISBOA/GAGO COUTINHO 08579 3846N 00908W 0B 3								EUROPE - GERMAN DEMOCRATIC REPUBLIC GREIFSWALD 09184 5406N 01324E 0B 1								EUROPE - GERMAN DEMOCRATIC REPUBLIC LINDENBERG 09393 5213N 01407E 0B 1											
030	23803	0	-55.5		0	86	245	4	030	23764	1	-57.0		0	38	29	1	030	23744	3	-57.7		0	29	8	1	
050	20547	0	-56.9		1	80	250	4	050	20532	0	-56.3		0	19	240	1	050	20520	1	-56.9		0	30	256	1	
100	16187	0	-58.6		1	92	277	13	100	16106	0	-53.4	9.8	0	62	221	2	100	16104	1	-54.2	8.2	0	68	227	3	
150	13625	0	-56.8	22.6	0	88	282	19	150	13484	0	-51.4	8.9	0	64	215	3	150	13487	0	-52.0	7.1	0	69	220	4	
200	11810	0	-58.1	15.8	0	83	289	21	200	11615	0	-51.9	7.4	0	63	215	5	200	11627	0	-53.4	5.6	0	66	220	5	
300	9204	0	-46.9	11.4	0	71	289	18	300	8998	0	-50.0	6.1	0	59	220	7	300	9024	0	-50.3	4.2	0	63	225	7	
500	5619	0	-19.4	11.8	0	72	293	14	500	5481	0	-25.0	7.7	0	59	217	5	500	5496	0	-23.5	7.2	0	63	224	5	
700	3033	0	-3.0	12.7	0	70	299	9	700	2948	0	-8.4	7.6	0	52	196	3	700	2951	0	-7.3	5.3	0	52	212	3	
850	1473	0	4.1	6.7	0	59	314	6	850	1416	0	0.5	4.9	0	28	164	2	850	1411	0	1.6	5.2	0	29	178	2	
1003	* 105		13.0	5.3					1011	* 6		6.2	3.1					997	* 115		6.7	2.9					
EUROPE - GERMAN DEMOCRATIC REPUBLIC MEININGEN 09548 5034N 01023E 0B 1								EUROPE - GERMANY, FEDERAL REPUBLIC SCHLESWIG 10035 5432N 00933E 0B 3								EUROPE - GERMANY, FEDERAL REPUBLIC HANNOVER 10338 5228N 00942E 0B 3											
030	23745	7	-57.6		1	32	347	1	030	23772	0	-56.9		2	21	46	1	030	23766	0	-57.0		0	6	359	0	
050	20509	5	-56.6		1	37	241	1	050	20531	0	-55.7		2	34	200	2	050	20528	0	-55.8		0	42	213	2	
100	16092	4	-53.9	8.2	0	74	221	3	100	16092	0	-52.7		2	67	204	5	100	16092	0	-53.0		0	70	213	6	
150	13477	4	-52.1	6.9	0	74	220	4	150	13465	0	-51.1		2	60	206	5	150	13469	0	-51.5		0	71	214	7	
200	11615	4	-53.1	5.1	0	66	219	5	200	11593	0	-51.8	6.7	2	51	204	6	200	11602	0	-52.3	6.1	0	63	214	8	
300	9015	2	-50.8	3.7	0	54	226	6	300	8973	0	-49.4	5.8	2	48	223	9	300	8994	0	-50.3	5.2	0	56	221	11	
500	5490	2	-23.7	5.0	0	60	227	5	500	5452	0	-25.0	6.2	2	45	214	7	500	5471	0	-23.8	6.2	0	58	223	9	
700	2945	2	-7.4	4.2	0	46	226	3	700	2926	0	-9.5	6.1	2	39	189	4	700	2934	0	-8.3	5.0	0	49	212	5	
850	1406	2	1.4	3.3	0	27	194	1	850	1402	0	-1.4	3.4	2	24	156	3	850	1401	0	-0.2	2.5	0	32	174	3	
956	* 453		4.8	2.4					1005	* 50		6.3	3.9					1003	* 55		8.0	4.7					
EUROPE - GERMANY, FEDERAL REPUBLIC ESSEN 10410 5124N 00658E 0B 3								EUROPE - GERMANY, FEDERAL REPUBLIC STUTTGART/SCHNARRENBURG 10739 4850N 00912E 0B 3								EUROPE - GERMANY, FEDERAL REPUBLIC MUENCHEN-OBERSCHLEISSHEIM 10868 4815N 01133E 0B 3											
030	23718	0	-56.5		0	20	254	1	030	23727	0	-56.9		0	43	309	2	030	23740	0	-57.2		0	46	320	2	
050	20479	0	-56.2		0	58	213	3	050	20496	0	-57.0		0	60	233	3	050	20513	0	-57.2		0	55	244	3	
100	16053	0	-53.7	14.3	0	76	213	6	100	16081	0	-54.1	14.3	0	79	224	7	100	16106	0	-54.4	14.6	0	80	231	7	
150	13437	0	-51.9	14.3	0	67	213	7	150	13469	0	-52.1	14.2	0	75	223	8	150	13494	0	-52.4	14.3	0	79	227	10	
200	11573	0	-52.3	12.8	0	58	213	8	200	11607	0	-53.0	12.5	0	69	220	10	200	11635	0	-53.3	12.8	0	73	222	11	
300	8973	0	-51.3	9.0	0	54	217	12	300	9013	0	-51.8	8.1	0	54	213	11	300	9042	0	-51.2	9.0	0	59	216	11	
500	5458	0	-24.6	9.1	0	52	223	8	500	5493	0	-23.5	8.4	0	63	218	9	500	5514	0	-22.9	9.8	0	62	219	8	
700	2926	0	-8.5	7.6	0	43	219	5	700	2947	0</																

EUROPE-AUSTRIA

## UPPER AIR

APRIL 1989

LEVEL				TEMPERATURE				VECTOR WIND				LEVEL				TEMPERATURE				VECTOR WIND				LEVEL				TEMPERATURE			
PRESSURE	HEIGHT	MISSING DAYS	MEAN	Dew Point	Depression	MISSING DAYS	Steadiness	Direction	Speed	PRESSURE	HEIGHT	MISSING DAYS	MEAN	Dew Point	Depression	MISSING DAYS	Steadiness	Direction	Speed	PRESSURE	HEIGHT	MISSING DAYS	MEAN	Dew Point	Depression	MISSING DAYS	Steadiness	Direction	Speed		
mb	gpm	°C	°C	°C	°C	%	o	mps	mb	gpm	°C	°C	%	o	mps	mb	gpm	°C	°C	%	o	mps	mb	gpm	°C	°C	%	o	mps		
EUROPE - AUSTRIA WIEN/HOHE WARTE																															
11035 4815N 01622E OB 3																															
030	23756	4	-56.9			4	48	321	2	030	23784	6	-58.2			7	38	312	1	030	23861	27	-55.4			9	75	160	1		
050	20527	2	-57.3			2	51	260	2	050	20562	0	-58.1			0	62	252	2	050	20595	23	-55.7			9	39	177	1		
100	16126	0	-54.9			0	75	235	7	100	16172	0	-54.9	7.6	0	77	227	4	100	16144	1	-53.5			1	64	218	3			
150	13522	0	-52.8			0	77	230	10	150	13571	0	-53.3	6.6	0	76	225	5	150	13516	0	-51.7			0	62	216	4			
200	211670	0	-54.8			0	72	226	13	200	211733	0	-57.0	5.6	0	68	216	7	200	211653	1	-52.9			0	60	214	5			
300	9081	0	-50.0			0	62	215	14	300	9139	0	-47.7	5.5	0	62	218	7	300	9035	0	-49.2			0	55	222	6			
500	5537	0	-22.0	10.7	0	68	218	10	500	5561	0	-20.2	7.3	0	62	213	5	500	5503	0	-24.0	7.2	0	58	217	5					
700	2974	0	-4.5	8.7	0	61	209	7	700	2988	0	-4.4	4.6	0	65	207	4	700	2960	0	-7.6	7.4	0	47	197	2					
850	1419	0	4.4	6.6	0	41	205	4	850	1432	0	5.1	4.9	0	46	204	2	850	1423	0	0.8	5.5	0	32	168	2					
985	*	200	11.7	6.5					928	* 706		9.2	5.7					1013	*	2	7.9	4.8									
EUROPE - POLAND POZNAN																															
12330 5225N 01650E OB 3																															
030	23812	0	-56.3			0	58	268	2	030	23812	0	-56.3			0	29	352	1	030	23795	19	-57.2								
050	20605	16	-56.3			9	58	268	2	050	20573	0	-57.0			0	35	276	1	050	20573	15	-56.7								
100	16139	3	-53.9			3	68	225	3	100	16144	0	-54.8			0	74	251	2	100	16133	4	-53.9			9	70	195	3		
150	13520	0	-52.1			0	70	223	4	150	13534	0	-52.5			0	71	231	4	150	13520	1	-52.9			9	70	250	6		
200	211658	0	-53.4			0	66	220	6	200	211679	0	-53.9			0	65	226	5	200	211671	0	-55.7			300	9071	0	-48.6	1	
300	9049	0	-49.8			0	62	223	7	300	9078	0	-50.2			0	60	229	7	300	9070	0	-22.0	4.8	0	70	235	6			
500	5516	0	-23.4	7.0	0	66	220	6	500	5545	0	-23.0	7.6	0	67	227	6	500	5522	0	-5.4	4.2	0	60	234	3					
700	2968	0	-6.8	6.4	0	55	203	3	700	2989	0	-5.8	7.1	0	59	211	3	700	2960	0	3.1	4.1	0	40	204	2					
850	1425	0	1.8	5.2	0	34	167	2	850	1440	0	2.8	4.6	0	45	182	2	850	1410	0	9.9	8.4	3.9	995	*	116	8.4				
1000	*	92	9.8	6.8					997	* 103		11.0	3.4					1007	*	12	14.4	5.8									
EUROPE - HUNGARY SZEGED																															
12982 4615N 02006E OB 3																															
030	23774	24	-56.7			9	62	348	1	030	23772	1	-56.5	25.1	1	63	307	3	030	23815	0	-56.1	28.6	0	73	316	4				
050	20546	18	-58.1			9	59	299	1	050	20534	0	-56.6	24.4	0	57	242	3	050	20581	0	-57.4	28.3	0	57	268	3				
100	16167	9	-56.3			9	77	243	4	100	16124	0	-54.2	23.6	0	85	236	8	100	16196	0	-55.7	27.8	0	92	244	11				
150	13575	5	-53.9			5	77	239	5	150	13511	0	-52.2	22.8	0	85	236	11	150	13600	0	-53.3	26.4	0	92	248	16				
200	211731	5	-55.5			5	73	234	7	200	211649	0	-52.7	18.9	0	78	235	12	200	211748	0	-53.9	20.2	0	88	247	20				
300	9138	3	-49.7	5.5	3	58	226	8	300	9039	0	-50.2	10.0	0	58	219	12	300	9127	0	-47.6	12.4	0	76	237	20					
500	5587	3	-21.2	7.8	3	62	222	5	500	5512	0	-23.2	8.4	0	61	215	8	500	5570	0	-21.6	11.6	0	72	233	12					
700	3011	1	-3.7	5.8	1	62	223	4	700	2962	0	-6.3	4.3	0	55	191	5	700	3002	0	-3.9	10.1	0	73	231	9					
850	1446	1	6.9	7.3	1	59	213	3	850	1415	0	3.5	3.9	0	49	149	3	850	1443	0	5.2	7.3	0	62	208	6					
1000	*	83	14.3	7.9					1007	* 103		11.0	3.4					1009	*	39	20.5	8.9									
EUROPE - ITALY BRINDISI																															
16320 4039N 01757E OB 1																															
030	23814	0	-55.5			0	76	312	4	030	23814	0	-55.5	29.6	0	76	305	4	030	23718	11	-56.1			9	86	264	5			
050	20578	0	-58.2			0	59	280	2	050	20578	0	-58.2	28.3	0	60	266	3	050	20524	9	-61.7			9	60	262	2			
100	16215	0	-57.8	28.8	0	87	254	11	100	16233	0	-58.7	28.1	0	93	253	13	100	16030	5	-63.8			5	96	284	14				
150	13640	0	-54.8	28.6	0	92	251	18	150	13667	0	-55.2	28.7	0	96	259	23	150	13762	4	-59.1	14.8	4	98	276	23					
200	211802	0	-56.4	19.5	0	87	253	22	200	211836	0	-56.4	19.7	0	82	258	29	200	211965	4	-59.9	12.8	3	92	279	24					
300	9196	0	-47.4	12.2	0	78	244	20	300	9216	0	-45.7	14.5	0	86	254	27	300	9245	3	-43.1	13.0	3	90	272	19					
500	5617	0	-19.7	14.5	0	81	236	14	500	5622	0	-1																			

EUROPE-TURKEY

## UPPER AIR

APRIL 1989

LEVEL PRESSURE mb	TEMPERATURE			VECTOR WIND			LEVEL PRESSURE gpm	TEMPERATURE			VECTOR WIND			LEVEL PRESSURE gpm	TEMPERATURE			VECTOR WIND			LEVEL PRESSURE gpm					
	MISSING DAYS		MEAN °C	DEW POINT °C	MISSING DAYS			MISSING DAYS		STEADINESS %	DIRECTION o	MISSING DAYS				MISSING DAYS		MEAN °C	DEW POINT °C	MISSING DAYS		STEADINESS %	DIRECTION o	SPEED mps		
	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION o	SPEED mps	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	DIRECTION o	SPEED mps	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION o	SPEED mps			
EUROPE - TURKEY																										
ISPARTA																										
17240 3745N 03033E OB 2																										
030	23873	15	-54.2		9	78	250	7	030	24104	4	-50.6		4	89	260	8	030	23778	14	-55.3		9	57	260	4
050	20644	9	-59.5		9	70	265	7	050	20814	2	-55.3		2	78	270	7	050	20559	7	-61.3		7	66	270	6
100	16325	3	-60.8		3	87	273	14	100	16426	0	-56.6		0	73	265	11	100	16284	3	-62.9		3	86	270	13
150	13775	0	-57.9		0	85	266	18	150	13839	0	-54.5		0	75	265	12	150	13755	2	-59.5		2	87	280	14
200	11966	0	-58.8		0	86	264	19	200	12004	0	-56.5		0	71	260	12	200	11960	1	-60.1		1	85	280	12
300	9359	0	-44.8		0	88	252	15	300	9366	0	-43.1		0	57	260	8	300	9365	0	-45.7		0	77	260	10
500	5743	0	-17.0	9.2	0	77	250	10	500	5730	0	-6.7	8.5	0	67	250	8	500	5750	0	-16.7	11.0	0	75	270	6
700	3121	0	2.7	12.5	0	75	236	6	700	3108	0	2.5	9.6	0	38	240	3	700	3124	0	3.2	7.3	0	60	270	3
850	1516	0	16.4	15.4	0	67	165	4	850	1499	0	16.5	12.9	0	25	170	1	850	1470	0	21.4	20.4	0	66	260	2
902	* 997		21.2	16.4					938	* 677		24.8	15.2					1010	* 20		28.0	27.3				
EUROPE - USSR																										
MURMANSK																										
22113 6858N 03303E OB 1																										
030	23772	2	-54.9		2	57	17	2	030	23752	1	-55.7		2	73	54	2	030	23820	4	-55.3		4	59	52	2
050	20508	0	-54.2		0	67	338	2	050	20500	0	-55.2		1	78	16	2	050	20556	2	-55.5		2	50	21	1
100	16061	0	-53.7		0	57	305	3	100	16070	0	-53.9		0	70	340	3	100	16132	2	-54.0		2	30	263	1
150	13448	0	-52.4		0	57	296	4	150	13462	0	-52.6		0	59	337	4	150	13521	1	-52.5		1	28	247	2
200	11592	0	-54.1		0	52	291	5	200	11607	0	-54.0		0	47	340	4	200	11665	1	-53.6		1	25	232	2
300	9000	0	-51.1		0	40	271	5	300	9019	0	-50.9		0	36	346	5	300	9048	0	-49.8		0	16	231	2
500	5492	0	-25.3	7.5	0	35	264	3	500	5511	0	-25.6	9.3	0	24	335	2	500	5526	0	-24.6	7.7	0	34	208	3
700	2973	0	-10.2	8.2	0	53	248	3	700	2993	0	-10.3	9.9	0	18	305	1	700	2992	0	-8.1	8.8	0	32	174	2
850	1457	0	-3.2	5.1	0	53	245	3	850	1476	0	-2.9	7.6	0	24	249	1	850	1462	0	-0.7	6.6	1	.31	169	2
1004	* 46		2.9	5.5					987	* 13		3.0	5.8					1004	* 4		6.6	5.7				
EUROPE - USSR																										
KAUNAS																										
26629 5453N 02353E OB 1																										
030	23715	1	-57.2	11.0	1	55	3	1	030	23733	0	-57.0	10.6	0	63	23	1	030	23706	0	-56.6		0	67	19	2
050	20485	1	-57.1	10.4	1	23	293	1	050	20509	0	-57.4	9.9	0	53	326	1	050	20467	0	-56.6		0	84	352	2
100	16092	0	-54.7	9.6	0	71	234	3	100	16116	0	-55.3	9.1	0	60	251	2	100	16068	0	-55.3		0	52	309	2
150	13487	0	-53.1	8.6	0	63	222	4	150	13519	0	-53.7	8.2	0	72	239	4	150	13470	0	-53.6		0	48	294	3
200	11636	0	-54.3	7.4	0	63	221	5	200	11674	0	-55.4	7.0	0	60	239	5	200	11623	0	-54.8		0	48	288	4
300	9036	0	-49.1	6.5	0	56	222	7	300	9079	0	-49.5	6.5	0	48	241	6	300	9031	0	-50.5		0	36	284	4
500	5508	0	-23.8	9.3	0	59	215	5	500	5541	0	-23.0	9.3	0	54	230	4	500	5521	0	-25.2	8.2	0	29	277	3
700	2969	0	-7.2	8.9	0	45	197	3	700	2992	0	-6.3	9.3	0	48	208	3	700	2999	0	-9.7	8.6	0	17	264	1
850	1434	0	0.6	4.9	0	51	180	3	850	1449	0	1.5	5.6	0	46	175	3	850	1477	0	-2.0	7.2	0	11	185	1
1004	* 75		8.1	4.2					987	* 234		8.2	5.7					1004	* 118		4.9	7.1				
EUROPE - USSR																										
KAZAN'																										
27595 5547N 04911E OB 1																										
030	23767	4	-55.1	7.6	8	62	357	3	030	23719	4	-57.0	9.9	4	72	44	2	030	23699	2	-57.4	9.6	2	55	13	1
050	20515	5	-56.3	7.1	7	72	322	4	050	20497	1	-57.4	9.4	2	57	352	1	050	20479	0	-58.4	9.0	1	70	309	2
100	16104	5	-55.0	6.8	6	77	316	6	100	16106	0	-55.5	8.7	0	57	295	2	100	16114	0	-56.8	8.3	0	81	263	3
150	13507	4	-53.6	6.1	5	78	319	6	150	13516	0	-53.9	7.8	0	64	285	3	150	13535	0	-55.1	7.3	0	78	255	5
200	116																									

EUROPE-USSR

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND						
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	
mb	gpm		°C	°C		%	°	mps	mb	gpm		°C	°C		%	°	mps	mb	gpm		°C	°C		%	°	mps	
EUROPE - USSR HAR'KOV																											
34300 4956N 03617E 0B 1							34731 4715N 03949E 0B 1							37549 4141N 04457E 0B 1							20674 7330N 08014E 0B 1						
030	23819	3	-57.8	9.5	3	57	331	1	030	23682	3	-57.1	9.4	3	65	294	2	030	23732	6	-56.5		6	86	268	3	
050	20600	2	-58.6	8.8	2	82	298	2	050	20467	0	-59.0	8.6	0	86	296	2	050	20532	3	-59.9		3	94	279	3	
100	16230	1	-56.8	8.0	1	87	270	4	100	16117	0	-58.3	7.6	0	87	284	4	100	16224	0	-60.0		0	91	272	6	
150	13653	1	-55.7	6.8	1	85	267	6	150	13557	0	-56.9	6.9	0	82	275	6	150	13679	0	-58.1		0	90	272	7	
200	11837	0	-58.0	5.7	0	75	267	7	200	11737	0	-57.9	5.8	0	76	275	7	200	11879	0	-61.2		0	81	274	8	
300	9224	0	-45.4	6.8	0	61	267	7	300	9172	0	-51.2	5.7	0	70	269	9	300	9302	0	-47.1		0	71	274	7	
500	5626	0	-19.5	9.9	0	56	255	4	500	5633	0	-21.4	9.2	0	64	266	6	500	5712	0	-19.0	10.6	0	72	275	5	
700	3045	0	-3.3	10.6	0	49	237	3	700	3058	0	-3.0	9.4	0	47	253	3	700	3118	0	-0.5	8.6	0	78	260	3	
850	1486	0	3.8	7.6	0	39	162	2	850	1494	0	6.0	10.0	0	29	205	2	850	1534	0	10.0	9.9	0	11	343	1	
1000	* 152		10.5	6.4					1008	* 77		13.2	7.5					963	* 490		17.4	10.9					
ASIA - USSR POLAR GMO IM.E.T. KRENKELJA							ASIA - USSR GMD IM.E.K. FEDOROVA							ASIA - USSR OSTROV DIKSON							20674 7330N 08014E 0B 1						
030	23767	0	-51.0	10.8	0	70	4	2	030	23847	11	-49.1		9	70	74	2	030	23718	0	-51.0		0	68	37	3	
050	20440	0	-50.5	9.9	0	82	347	3	050	20497	11	-48.4		9	81	67	3	050	20389	0	-50.2		0	71	21	3	
100	15902	0	-48.5	8.5	0	75	329	5	100	15933	10	-47.7		9	66	66	3	100	15855	0	-48.6		0	81	7	4	
150	13229	0	-47.6	7.4	0	76	323	6	150	13253	10	-46.9		9	56	62	3	150	13182	0	-47.7		0	76	1	5	
200	11330	0	-48.4	6.1	0	76	320	7	200	11350	10	-47.6		9	48	62	3	200	11283	0	-47.5		0	70	358	6	
300	8689	0	-52.4	4.4	0	60	309	8	300	8696	10	-51.3		9	36	71	4	300	8620	0	-50.9		0	66	359	7	
500	5272	0	-34.2	5.3	0	48	304	5	500	5283	10	-35.2	5.7	9	36	85	4	500	5231	0	-37.0	5.9	0	54	360	5	
700	2843	0	-19.8	5.9	0	36	298	3	700	2862	10	-21.2	6.0	9	36	87	3	700	2822	0	-21.6	6.9	0	42	3	3	
850	1383	0	-14.2	4.9	0	18	287	1	850	1412	10	-16.2	4.7	9	44	89	3	850	1371	0	-15.8	6.2	0	29	11	2	
1018	* 20		-18.2	2.4					1016	* 13		-18.4	2.7					1013	* 20		-18.8	2.0					
ASIA - USSR HATANGA							ASIA - USSR OSTROV KOTEL'NYJ							OSTROV CETYREH-STOLBOVOJ							21432 7600N 13754E 0B 1						
030	23701	2	-50.4	12.4	3	65	84	2	030									030	23750	0	-50.2		0	55	192	2	
050	20356	1	-49.6	12.0	2	51	60	2	050									050	20413	0	-49.5		0	62	200	3	
100	15793	0	-48.0	10.7	0	30	21	2	100									100	15857	0	-48.1		0	69	206	3	
150	13116	0	-47.1	9.5	0	30	7	2	150									150	13184	0	-47.3		0	59	209	3	
200	11213	0	-47.6	8.0	0	24	351	2	200	11227	0	-51.1		0	47	195	4	200	11291	0	-48.2		0	36	207	3	
300	8562	0	-52.2	5.4	0	18	321	2	300	8580	0	-51.1		0	47			300	8657	0	-53.4		0	12	182	2	
500	5177	0	-37.3	5.5	0	18	326	2	500	5166	0	-36.9	6.4	0	40	206	3	500	5247	0	-34.4	4.0	0	6	110	1	
700	2783	0	-23.4	6.1	0	18	331	2	700	2787	0	-23.7	5.3	0	40	204	2	700	2822	0	-20.2	5.1	0	35	65	2	
850	1348	0	-18.1	6.1	0	12	324	1	850	1354	0	-18.5	4.7	0	35	197	2	850	1367	0	-15.1	3.8	0	47	49	2	
1013	* 24		-18.8	4.2					1016	* 10		-22.2	2.7					1013	* 6		-19.5	1.9					
ASIA - USSR NAR' JAN-MAR							ASIA - USSR SALEHARD							ASIA - USSR TURUHANSK							23472 6547N 08757E 0B 1						
030	23788	0	-53.8	11.2	0	56	25	2	030	23773	5	-52.7		5	61	21	2	030	23701	1	-51.7		1	42	17	2	
050	20503	0	-53.3	10.3	0	81	6	3	050	20482	3	-52.2		3	69	7	3	050	20391	1	-50.8		1	42	353	2	
100	16024	0	-52.2	8.9	0	81	344	5	100	15978	1	-50.6		1	75	349	5	100	15870	1	-48.8		1	59	332	3	
150	13395	0	-51.3	8.0	0	81	340	6	150	13325	0	-49.7		0	79	344	6	150	13206	1	-47.8		1	48	318	3	
200	11532	0	-52.8	7.0	0	79	340	8	200	11438	0	-49.8		0	81	344	8	200	11311	1	-47.7		1	43	308	3	
300	8935	0	-51.9	6.5	0	70	340	9	300	8805	0	-51.5		0	75	349	11	300	8655	1	-49.2		1	28	299	3	
500	5452	0	-27.8	8.3	0	66	338	6	500	5356	0	-31.6	7.4	0	72	349	9	500	5216	0	-34.7	6.0	0	18	287	2	
700	2958	0	-12.8	9.8	0	66	333	4	700	2905	0	-17.2	7.8	0	67	348	5	700	2797	0	-21.3	6.6	0	17	298	1	
850	1456	0	-6.4	8.9	0	48	324	3	850	1426	0	-12.0	6.8	0	67	347	4	850	1350	0	-15.1	6.5	0	5	276	1	
1022	* 7		-5.9	3.8					1020	* 35		-12.4	4.2					1009	* 32		-12.6	5.6					
ASIA - USSR SYKTYVKAR							ASIA - USSR HANTY-MANSIJSK							ASIA - USSR OLENEK							23933 6058N 06904E 0B 1						

ASIA-USSR

## UPPER AIR

APRIL 1989

LEVEL PRESSURE mb	TEMPERATURE		VECTOR WIND			LEVEL PRESSURE mb	TEMPERATURE		VECTOR WIND			LEVEL PRESSURE mb	TEMPERATURE		VECTOR WIND														
	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS		HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS		HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps									
030	23744	9	-49.5	11.6	9	69	158	2	030	23724	1	-51.0		1	13	10	1	030	23682	0	-51.0	11.8	0	46	246				
050	20395	9	-49.7	9.8	9	59	176	2	050	20394	0	-50.4		0	10	320	1	050	20361	0	-50.8	11.3	0	43	256				
100	15853	7	-48.4	8.4	7	50	186	2	100	15859	0	-48.7		0	45	293	2	100	15835	0	-50.0	9.7	0	57	282				
150	13188	7	-48.3	7.2	7	28	199	1	150	13192	0	-48.2		0	56	286	3	150	13183	0	-49.6	8.3	0	57	303				
200	11295	7	-49.0	5.8	7	32	229	2	200	11299	0	-48.0		0	50	275	4	200	11305	0	-50.2	6.9	0	63	315				
300	8674	7	-54.4	4.1	7	29	230	3	300	8652	0	-51.5		0	47	262	6	300	8687	0	-54.4	4.2	0	66	332				
500	5278	7	-35.0	5.0	7	30	220	3	500	5238	0	-35.0	5.3	0	42	255	4	500	5284	0	-34.2	4.7	0	60	334				
700	2856	7	-20.3	5.6	7	35	202	2	700	2818	0	-20.9	6.0	0	42	251	3	700	2851	0	-18.4	5.6	0	66	324				
850	1398	7	-13.4	5.6	7	51	192	2	850	1365	0	-14.0	6.4	1	38	244	2	850	1378	0	-10.1	4.7	0	39	320				
1002	* 137		-12.3	5.2				990	* 186		-10.1	7.4					1000	* 103		-5.9	6.4								
ASIA - USSR VERHOJANSK 24266 6733N 13323E OB 1					ASIA - USSR TURA 24507 6410N 10094E OB 1					ASIA - USSR JAKUTSK 24959 6205N 12945E OB 1					ASIA - USSR MYS. SMIDTA 25173 6855N 17929W OB 1					ASIA - USSR ANADYR' 25563 6447N 17734E OB 1					ASIA - USSR SEJMCA 25703 6255N 15225E OB 1				
030	23778	0	-51.2		0	50	205	2	030	23787	0	-50.9		0	53	191	2	030	23773	0	-50.3		0	65	190				
050	20458	0	-50.2		0	75	212	3	050	20465	0	-50.4		0	79	199	3	050	20449	0	-50.4		0	64	203				
100	15922	0	-48.5		0	70	217	4	100	15942	0	-49.2		0	76	213	4	100	15911	0	-48.8		0	75	227				
150	13251	0	-47.0		0	64	216	4	150	13276	0	-46.9		0	72	220	4	150	13236	0	-47.7		0	77	232				
200	11354	0	-46.9		0	53	215	4	200	11371	0	-46.4		0	66	224	5	200	11334	0	-48.0		0	61	236				
300	8692	0	-49.7		0	30	203	4	300	8695	0	-48.6		0	54	225	6	300	8684	0	-51.2		0	46	249				
500	5248	0	-32.4	4.8	0	12	186	2	500	5245	0	-31.9	5.4	0	36	213	3	500	5251	0	-33.2	5.6	0	11	317				
700	2809	0	-19.0	5.0	0	12	128	1	700	2800	0	-17.9	5.6	0	18	195	1	700	2822	0	-20.0	5.9	0	28	360				
850	1349	0	-14.6	3.0	0	6	72	1	850	1332	0	-12.8	3.6	0	12	96	1	850	1366	0	-15.5	4.4	0	44	5				
1016	* 7		-15.9	2.8				1011	* 62		-11.0	2.5					989	* 207		-12.2	4.7								
ASIA - USSR KORF 25954 6021N 16600E OB 1					ASIA - USSR SVERDLOVSK 28440 5648N 06038E OB 1					ASIA - USSR OMSK 28698 5456N 07324E OB 1					ASIA - USSR KUSTANAJ 28952 5313N 06337E OB 1					ASIA - USSR KOLPASEV 29231 5818N 08254E OB 1					ASIA - USSR KRASNOJARSK 29574 5600N 09253E OB 1				
030	23773	3	-51.0	9.5	3	51	200	2	030	23684	0	-55.0		1	62	7	2	030	23674	3	-53.6	12.0	3	57	349				
050	20449	0	-50.4	8.8	0	53	205	2	050	20427	0	-55.3		0	64	345	2	050	20399	3	-54.4	11.1	3	65	318				
100	15922	0	-49.5	7.7	0	68	232	3	100	15997	0	-53.8		0	72	327	4	100	15953	3	-52.9	10.1	3	75	297				
150	13260	0	-48.4	6.8	0	75	240	5	150	13384	0	-52.1		0	72	324	5	150	13328	3	-51.6	8.9	3	76	291				
200	11368	0	-49.2	5.8	0	78	248	6	200	11524	0	-52.9		0	72	323	6	200	11462	3	-52.1	7.3	3	66	286				
300	8723	0	-49.9	4.7	0	76	259	8	300	8919	0	-51.9		0	48	326	6	300	8852	3	-51.3	5.6	3	51	278				
500	5259	0	-31.2	5.2	0	59	260	4	500	5444	0	-28.2	7.6	0	54	324	5	500	5387	3	-29.6	6.5	3	51	272				
700	2808	0	-18.2	4.8	0	29	265	2	700	2955	0	-13.4	7.9	0	58	327	4	700	2908	3	-13.6	7.8	3	51	279				
850	1341	0	-12.5	3.8	0	17	260	1	850	1456	0	-6.1	7.0	0	58	327	3	850	1412	3	-6.5	6.8	3	45	283				
1011	* 3		-7.7	3.3				985	* 237		0.5	6.4					1004	* 94		1.6	8.2								
ASIA - USSR KUSTANAJ 28952 5313N 06337E OB 1					ASIA - USSR KOLPASEV 29231 5818N 08254E OB 1					ASIA - USSR KRASNOJARSK 29574 5600N 09253E OB 1					ASIA - USSR KIRENSK 30230 5746N 10607E OB 1					ASIA - USSR CITA 30758 5201N 11320E OB 1					ASIA - USSR ALDAN 31004 5837N 12522E OB 1				
030	23750	7	-51.2		8	42	230	1	030	23670	1	-52.6		1	70	260	2	030	23685	2	-52.3		2	37	279				
050	20426	3	-51.4		3	55	260	2	050	20380	0	-53.7		1	78	276	3	050	20388	2	-53.0		2	74	282				
100	15933	1	-51.2		1	79	274	4	100	15939	0	-53.9		0	91	290	6	100	15891	0	-50.9		0	57	272				
150	13297	1	-51.0		1	84	271	5	150	13336	0	-53.9		0	84	292	7	150	13246	0	-50.7		0	71	276				
200	11431	1	-52.2		1	79	267	6	200	11490	0	-55.5		0	85	294	9	200	11380	0	-51.8		0	74	282				
300	8819	1	-53.1		1	74	262	8	300	8920	0	-53.4		0	69	294	9	300	8786	0	-54.8		0	58	286				
500	5370	1	-31.0	7.3	1	72	262	5	500	5447	0	-27.7	7.3	0	72	296	6	500	5353	0	-31.4	6.0	0	53	290				
700	2908	1	-15.8	6.8	1	78	258	4	700	2944	0	-10.9	9.8	0	48	296	3	700	2893	0	-15.7	6.3	0	51	296				
850	1422	1	-7.5	7.2	1	58	252	2	850	1424	0	-0.4	12.6	0	47	305	2	850	1405	0	-7.7	6.2	0	48	286				
984	* 258		-1.7	8.0				933	* 685		3.2	11.7					931	* 682		-3.5	7.6								

ASIA-USSR

## UPPER AIR

APRIL 1989

LEVEL				TEMPERATURE			VECTOR WIND			LEVEL				TEMPERATURE			VECTOR WIND			LEVEL				TEMPERATURE			VECTOR WIND		
PRESSURE	HEIGHT	MISSING DAYS	MEAN	Dew Point	Depression	MISSING DAYS	Steadiness	Direction	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	Dew Point	Depression	MISSING DAYS	Steadiness	Direction	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	Dew Point	Depression	MISSING DAYS	Steadiness	Direction	SPEED
mb	gpm		°C	°C	%		°		mps	mb	gpm		°C	°C	%		°		mps	mb	gpm		°C	°C	%		°		mps
ASIA - USSR OHTOSK 31088 5922N 14312E 0B 1						ASIA - USSR BLAGOVESCENSK 31510 5016N 12730E 0B 1						ASIA - USSR HABAROVSK 31735 4831N 13510E 0B 1																	
030	23733	0	-50.7		0	49	199	2	030	23819	0	-51.9		0	79	249	2	030	23723	0	-52.3	11.4	0	81	242	3			
050	20415	0	-50.8		0	55	206	2	050	20517	0	-52.7		0	85	261	3	050	20427	0	-52.9	10.7	0	82	250	3			
100	15893	0	-49.4		0	58	231	3	100	16039	0	-52.8		0	81	276	5	100	15962	0	-52.8	9.7	0	84	266	6			
150	13229	0	-48.2		0	59	240	3	150	13411	0	-52.1		0	82	285	7	150	13343	0	-52.1	8.8	0	78	270	7			
200	11335	0	-48.3		0	53	249	3	200	11552	0	-53.1		0	74	289	7	200	11481	0	-52.5	7.6	0	78	277	8			
300	8692	0	-52.5		0	35	263	4	300	8931	0	-50.8		0	59	302	7	300	8869	0	-51.0	6.5	0	66	280	8			
500	5272	0	-33.1	5.5	0	30	314	3	500	5437	0	-26.8	8.1	0	60	308	5	500	5399	0	-28.8	8.2	0	66	290	5			
700	2835	0	-18.1	5.5	0	42	351	2	700	2928	0	-10.2	8.5	0	48	310	3	700	2908	0	-11.6	8.9	0	54	292	3			
850	1362	0	-10.3	6.0	0	60	15	2	850	1405	0	-0.4	12.2	0	41	320	2	850	1394	0	-1.9	9.5	0	41	299	2			
1010	* 6	-3.1	5.4					993	* 137	5.5	13.0							1001	* 72	4.6	7.2								
ASIA - USSR VLADIVOSTOK 31960 4307N 13154E 0B 1						ASIA - USSR JUZNO-SAHALINSK 32150 4655N 14244E 0B 1						ASIA - USSR PETROPAVLOVSK-KAMCATEISKIJ 32540 5258N 15845E 0B 1																	
030	23775	1	-52.3	13.0	1	89	231	3	030	23768	0	-52.0		0	83	248	3	030	23829	1	-50.9		1	45	231	1			
050	20491	0	-54.3	11.4	1	90	252	4	050	20464	0	-52.8		0	88	251	4	050	20511	1	-52.0		1	79	241	3			
100	16080	0	-55.6	9.9	0	90	271	9	100	16004	0	-53.0		0	89	258	7	100	16023	0	-51.7		0	75	241	5			
150	13485	0	-53.5	8.8	0	88	272	12	150	13382	0	-51.7		0	81	265	8	150	13380	0	-49.9		0	72	243	6			
200	11638	0	-54.1	7.6	0	82	273	13	200	11520	0	-52.5		0	81	267	10	200	11498	0	-50.5		0	72	247	8			
300	9033	0	-49.4	7.4	0	75	275	12	300	8901	0	-49.4		0	66	262	10	300	8869	0	-49.5		0	60	248	9			
500	5501	0	-24.8	11.1	0	70	285	8	500	5396	0	-27.1	9.3	0	60	283	6	500	5354	0	-26.6	6.1	0	54	246	5			
700	2971	0	-7.5	11.1	0	58	299	4	700	2895	0	-11.3	9.1	0	53	298	4	700	2853	0	-13.6	5.5	0	24	233	2			
850	1433	0	2.3	12.3	0	45	318	3	850	1384	0	-4.0	6.5	0	33	318	2	850	1358	0	-7.0	3.9	0	5	288	1			
1000	* 138	7.0	7.8					1008	* 31	1.6	4.4							998	* 7	0.7	5.6								
ASIA - USSR ORENBURG 35121 5145N 05506E 0B 1						ASIA - USSR KARAGANDA 35394 4948N 07308E 0B 1						ASIA - USSR GUR'EV 35700 4701N 05151E 0B 1																	
030	23723	1	-55.8		1	65	311	2	030	23735	0	-53.7		0	79	291	3	030	23695	9	-57.0	10.1	9	70	291	2			
050	20478	1	-56.9	9.4	1	66	310	3	050	20463	0	-55.2		0	92	287	4	050	20478	8	-58.0	9.4	8	80	287	3			
100	16099	0	-56.2	8.7	0	82	304	5	100	16039	0	-54.7		0	82	283	5	100	16128	6	-57.9	8.4	6	94	292	6			
150	13482	0	-54.1	7.8	0	84	309	6	150	13436	0	-53.0		0	78	273	7	150	13556	6	-56.0	7.7	6	88	293	7			
200	11631	0	-54.3	7.0	0	74	306	7	200	11585	0	-53.9		0	70	272	8	200	11736	7	-58.5	6.2	6	88	291	10			
300	9035	0	-51.7	6.6	0	69	310	9	300	8979	0	-50.8		0	66	267	9	300	9157	6	-48.6	6.8	6	81	294	10			
500	5535	0	-25.8	8.0	0	58	314	6	500	5482	0	-27.3	7.0	0	66	263	7	500	5608	6	-22.2	9.6	6	79	294	6			
700	3015	0	-9.6	9.2	0	52	315	4	700	2982	0	-11.2	6.7	0	72	263	5	700	3050	6	-5.7	13.2	6	66	296	3			
850	1495	0	-1.9	8.3	0	40	322	2	850	1471	0	-3.0	5.3	0	66	253	4	850	1505	2	2.2	12.4	7	0	304	0			
1000	* 109	4.8	7.0					953	* 555	2.4	12.9							1024	* 20	10.1	13.0								
ASIA - USSR ALMA-ATA 36870 4314N 07656E 0B 1						ASIA - USSR TASKEKT 38457 4116N 06916E 0B 1						ASIA - USSR ASHABAD 38880 3758N 05820E 0B 1																	
030	23744	17	-51.3	10.4	9	88	268	3	030	23777	0	-54.6	10.7	0	90	283	4	030	23804	2	-55.1	10.1	2	98	269	4			
050	20460	17	-56.1	7.9	9	90	271	4	050	20541	0	-58.0	9.9	0	88	286	5	050	20573	2	-59.6	9.4	2	96	270	4			
100	16091	16	-58.4	6.7	9	94	276	9	100	16208	0	-58.4	8.9	0	90	285	9	100	16287	1	-60.8	8.5	1	95	270	9			
150	13522	14	-56.4	5.7	9	89	279	11	150	13642	0	-55.8	8.2	0	90	283	11	150	13747	0	-57.6	8.3	0	93	270	11			
200	11707	14	-59.6	4.5	9	80	270	12	200	11817	0	-57.1	7.5	0	84	284	12	200	11934	0	-58.9	7.6	0	93	274	11			
300	9144	14	-49.9	4.4	9	80	271	11	300	9213	0	-47.9	7.9	0	78	283	10	300	9324	0	-45.6	8.9	0	89	279	9			
500	5601	13	-22.6	6.6	9	85	263	8	500	5648	0	-21.1	10.9	0	78	269	6	500	5712	0	-17.8	12.1	0	87	284	6			
700	3043	13	-4.5	6.5	9	99	251	4	700	3079	0	-3.3	13.2	0	84	257	4	700	3104	0	0.7	10.5	0	81	274	4			
850	14851	13	6.5	10.7	9	42	274	1	850	1514	0	7.3	13.7	0	39	263	1	850	1516	0	10.9	13.1	0	0	160	0			
939	* 847	11.0	9.9					961	* 428	12.9	12.6							981	* 228	18.6	15.7								
ASIA - SAUDI ARABIA TABUK 40375 2822N 03638E 0B 3						ASIA - SAUDI ARABIA HAIL 40394 2726N 04141E 0B 3						ASIA - SAUDI ARABIA DHRAHRAN 40416 2616N 05009E 0B 3																	
030	23817	8	-52.7	31.1	7	78	263	5	030	23800	8	-52.6	31.9	8	74	266	4	030	20552	10	-63.5								
050	20588	6	-62.5	27.8	6	35	2																						

ASIA-SAUDI ARABIA

## UPPER AIR

APRIL 1989

LEVEL			TEMPERATURE			VECTOR WIND			LEVEL			TEMPERATURE			VECTOR WIND			LEVEL			TEMPERATURE			VECTOR WIND		
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	SPEED
mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps
<b>ASIA - SAUDI ARABIA</b> <b>MADINAH</b> 40430 2433N 03942E 0B 3																										
<b>ASIA - SAUDI ARABIA</b> <b>KING KHALED INTL AIRPORT</b> 40437 2456N 04643E 0B 3																										
030	23813	8	-51.9	31.4	8	54	87	3	030									030	23777	6	-52.6	32.9	7	84	94	6
050	20583	6	-63.3	27.1	6	56	158	0	050									050	20554	6	-64.1	26.4	7	56	97	2
100	16457	1	-71.5	24.0	1	95	269	20	100									100	16477	4	-74.4	21.7	5	94	267	17
150	14003	1	-60.9	26.0	1	95	270	33	150									150	14059	2	-63.4	23.9	2	96	271	35
200	12182	1	-53.4	22.9	1	91	271	33	200									200	12247	2	-52.8	24.8	2	92	271	36
300	9495	1	-39.4	19.2	1	88	272	22	300									300	9535	1	-36.4	25.5	1	91	273	27
500	5806	1	-12.5	25.1	1	76	273	9	500									500	5814	1	-10.9	27.5	2	84	277	9
700	3148	1	6.3	11.3	1	33	221	2	700									700	3140	1	7.4	13.6	1	42	196	3
850	1514	1	20.2	19.5	1	39	116	2	850									850	1503	1	20.5	16.9	1	60	145	4
940	* 636		27.2	21.8					944									944	* 18		29.5	13.4				
<b>ASIA - SAUDI ARABIA</b> <b>KHAMIS MUSHAIT</b> 41114 1818N 04248E 0B 3																										
<b>ASIA - PAKISTAN</b> <b>PESHAWAR</b> 41530 3401N 07135E 0B 1																										
030	050	16	-65.1	23.2	2	95	260	13	030									030	050							
050	20560	5	-78.0	17.5	6	95	267	27	050									050								
100	16526	2	-65.7	18.3	2	94	267	27	100									100	16477	4	-74.4	21.7	5	94	267	35
150	14147	2	-53.2	19.9	2	94	265	30	150									150	14059	2	-63.4	23.9	2	96	271	36
200	12348	2	-33.0	22.1	3	90	262	25	200									200	12247	2	-52.8	24.8	2	92	271	36
300	9618	2	-8.7	22.4	5	85	259	10	300									300	9535	1	-36.4	25.5	1	91	273	27
500	5842	2	9.4	9.5	5	77	208	6	500									500	5814	1	-10.9	27.5	2	84	277	9
700	* 2054		18.0	10.3					700									700	3140	1	7.4	13.6	1	42	196	3
797									797									797	1503	1	20.5	16.9	1	60	145	4
<b>ASIA - PAKISTAN</b> <b>MULTAN</b> 41675 3012N 07126E 0B 1																										
<b>ASIA - PAKISTAN</b> <b>KARACHI AIRPORT</b> 41780 2454N 06708E 0B 2																										
030									030									030	23995	6	-47.2					
050									050									050	20674	2	-56.7					
100									100									100	16452	0	-70.5		3	98	264	26
150									150									150	14024	0	-61.8		0	97	268	41
200									200									200	12215	0	-52.9		0	97	269	47
300									300									300	9488	0	-36.3		0	97	273	41
500									500									500	5784	0	-10.8	12.0	0	97	275	20
700	3093	0	6.0	13.5	0	78	273	5	700									700	3017	0	8.2	16.1	0	94	285	12
850	1472	0	18.4	18.0	0	29	224	1	850									850	1468	0	21.5	22.2	0	90	301	8
992	* 123		19.6	5.0					992									992	* 216		28.1	21.2				
<b>ASIA - HONG KONG</b> <b>KING'S PARK</b> 45004 2219N 11410E 0B 1																										
<b>ASIA - DPR KOREA</b> <b>PYONGYANG</b> 47058 3902N 12547E 0B 1																										
030	23826	4	-52.9	29.9	1	82	77	5	030									030	23828	18	-52.2	11.1	9	54	219	3
050	20593	2	-63.0	26.6	0	14	94	1	050									050	20547	11	-57.6	9.6	9	84	268	7
100	16561	2	-79.2	17.8	0	96	261	14	100									100	16234	1	-62.6	8.8	1	96	275	27
150	14185	1	-65.3	19.8	0	97	268	24	150									150	13704	1	-57.5	9.2	1	97	273	39
200	12380	0	-52.3	21.9	0	96	267	26	200									200	11874	0	-55.1	9.7	0	27	183	34
300	9634	0	-31.3	22.1	0	96	268	25	300									300	9231	0	-43.5	9.7	0	94	272	34
500	5829	0	-7.0	20.9	0	95	267	16	500									500	5615	0	-19.3	12.0	0	85	278	15
700	3133	0	8.3	9.3	0	93	253	11	700									700	3035	0	-3.1	13.9	0	63	287	7
850	1499	0	16.6	5.6	0	88	227	7	850									850	1472	0	6.0	11.4	0	39	308	3
1004	* 66		21.2	2.1					1004									1004	* 6		13.4	7.1				
<b>ASIA - JAPAN</b> <b>WAKKANAI</b> 47401 4525N 14141E 0B 2																										
<b>ASIA - JAPAN</b> <b>SAPPORO</b> 47412 4303N 14120E 0B 2																										
030	23722	8	-52.5		9	88	241	8	030									030	23760	2	-52.3		3	76	246	6
050	20433	5	-53.5		6	90	254	8	050																	

ASIA - JAPAN

UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND					
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEN POINT DEPRESSION	MISSING DAYS	% STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEN POINT DEPRESSION	MISSING DAYS	% STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEN POINT DEPRESSION	MISSING DAYS	% STEADINESS	DIRECTION	SPEED
mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps
ASIA - JAPAN SENDAI 47590 3816N 14054E 0B 2																										
ASIA - JAPAN WAJIMA 47600 3723N 13654E 0B 2																										
ASIA - JAPAN TATENO 47646 3603N 14008E 0B 2																										
030	23784	2	-52.7		5	62	240	5	030	23787	4	-52.5		7	71	247	5	030	23788	5	-52.1		8	37	230	3
050	20509	2	-56.6		2	89	250	6	050	20511	2	-56.6		3	90	257	7	050	20519	2	-56.8		2	83	244	6
100	16173	0	-59.1		0	94	267	23	100	16191	1	-60.9		1	95	268	26	100	16219	0	-63.0		0	96	265	27
150	13614	0	-55.9		0	95	266	35	150	13643	1	-55.5		1	96	268	37	150	13691	0	-57.4		0	95	268	38
200	11780	0	-54.9		0	92	264	37	200	11805	1	-54.4		1	94	268	40	200	11867	0	-56.1		0	95	266	45
300	9151	0	-45.6		1	85	264	31	300	9173	0	-44.5		0	89	271	34	300	9230	0	-43.3		0	91	266	38
500	5566	0	-20.5	13.2	0	74	270	16	500	5581	0	-20.7	12.6	0	78	278	16	500	5610	0	-18.8	13.6	0	81	266	18
700	2996	0	-4.7	13.0	0	74	282	11	700	3013	0	-4.9	14.2	0	72	276	9	700	3022	0	-3.1	14.0	1	71	266	10
850	1445	0	3.5	9.1	0	69	281	9	850	1461	0	4.2	10.9	0	65	264	6	850	1459	0	6.0	8.1	0	61	230	5
1008	* 43		10.9	6.0					1013	*	6	10.0	4.9					1009	*	31	12.9	5.0				
ASIA - JAPAN HACHIJOJIMA/OMURE 47678 3307N 13947E 0B 2																										
ASIA - JAPAN YONAGO 47744 3526N 13321E 0B 2																										
ASIA - JAPAN SHIONOMISAKI 47778 3327N 13546E 0B 2																										
030	23806	3	-52.8		6	23	144	2	030	23787	5	-52.4		6	76	251	6	030	23801	4	-52.5		4	24	195	2
050	20551	0	-58.3		0	84	250	6	050	20525	0	-58.5		2	95	263	9	050	20535	0	-58.0		1	55	234	4
100	16317	0	-67.0		0	97	266	31	100	16251	0	-63.3		0	97	270	26	100	16297	0	-66.4		0	96	268	30
150	13827	0	-59.6		0	98	270	48	150	13728	0	-57.6		0	97	270	37	150	13806	0	-59.3		0	97	268	47
200	12017	0	-56.0		0	97	269	54	200	11901	0	-55.4		0	96	271	41	200	11992	0	-56.2		0	97	269	53
300	9357	0	-40.0	7.9	0	96	265	44	300	9259	0	-42.7		0	94	272	33	300	9335	0	-40.5	10.3	0	96	266	42
500	5676	0	-14.9	12.2	0	94	267	23	500	5627	0	-18.2	15.3	0	90	275	16	500	5665	0	-15.3	14.4	0	93	269	21
700	3057	0	0.2	17.9	0	78	265	11	700	3038	0	-3.2	14.3	0	67	292	7	700	3051	0	-0.8	13.1	0	78	269	9
850	1477	0	8.8	14.4	1	65	261	7	850	1476	0	6.0	10.7	0	38	270	3	850	1475	0	7.8	9.5	0	27	273	2
996	* 153		15.1	4.6					1014	*	8	13.2	5.5					1005	*	75	15.9	5.1				
ASIA - JAPAN FUKUOKA 47807 3335N 13023E 0B 2																										
ASIA - JAPAN KAGOSHIMA/YOSHINO 47827 3138N 13035E 0B 2																										
ASIA - JAPAN NAZE/FUNCHATOGE 47909 2823N 12933E 0B 2																										
030	23774	2	-52.5		2	49	252	3	030	23816	3	-52.9		4	37	252	2	030	23810	4	-52.9		6	36	32	2
050	20525	0	-59.2		1	88	256	6	050	20565	2	-60.0		3	88	250	6	050	20563	1	-61.8		4	58	247	3
100	16292	0	-66.4		0	97	270	29	100	16368	0	-69.2		0	97	270	29	100	16436	0	-73.4		0	96	268	24
150	13800	0	-59.1		0	98	271	44	150	13899	0	-60.3		0	97	270	46	150	14013	0	-63.3		0	97	271	42
200	11987	0	-56.2		0	96	271	51	200	12086	0	-55.4		0	97	271	52	200	12206	0	-54.3		0	97	272	44
300	9335	0	-41.0		0	96	271	38	300	9409	0	-38.7	9.1	0	97	269	39	300	9507	0	-36.0	10.3	0	95	267	33
500	5666	0	-15.4	14.0	0	94	275	19	500	5703	0	-12.8	11.9	0	95	271	21	500	5762	0	-10.2	8.6	0	96	264	22
700	3052	0	-0.4	17.6	0	64	283	7	700	3064	0	1.5	13.3	0	74	279	7	700	3090	0	4.9	10.1	0	94	269	12
850	1476	0	7.8	11.6	0	11	207	1	850	1476	0	9.4	10.8	0	10	120	1	850	1484	0	12.0	8.8	0	44	270	4
1012	* 14		16.1	6.7					980	*	283	14.3	4.9					978	*	295	17.2	2.4				
ASIA - JAPAN ISHIGAKIJIMA 47918 2420N 12410E 0B 2																										
ASIA - JAPAN NAHA 47936 2612N 12740E 0B 2																										
ASIA - JAPAN MINAMIDAITOJIMA 47945 2550N 13114E 0B 2																										
030	23804	1	-53.0		3	82	57	4	030	23810	4	-52.9		4	48	7	2	030	23812	5	-52.6		7	66	46	3
050	20576	1	-61.7		1	38	164	2	050	20578	1	-61.8		1	42	266	2	050	20579	4	-61.5		5	11	153	1
100	16523	0	-77.8		0	97	269	19	100	16493	0	-76.1		0	96	267	22	100	16492	0	-76.2		0	96	265	20
150	14139	0	-65.2		0	98	270	29	150	14096	0	-64.5		0	97	272	34	150	14095	0	-64.7		0	97	271	34
200	12338	0	-52.9		0	96	272	33	200	12293	0	-53.2		0	97	272	38	200	12293	0	-53.4		0	98	272	38
300	9608	0	-32.9	14.0	0	96	270	29	300	9573	0	-34.1	11.9	0	96	270	30	300	9575	0	-34.3	12.1	0	97	269	30
500	5819	0	-7.8	12.6	0	97	263	18	500	5803	0	-8.4	11.0	0	95	263	19	500	5804	0	-8.3	11.9	0	97	263	19
700	3126	0	7.8	8.6	0	94	263	10	700	3116	0	6.7	8.6	0	95	266	13	700	3116	0	6.8	8.9	0	96	264	13
850	1498	1	15.7	4.9	1	60	252	4	850	1495	0	14.1	7.7	1	76	273	6	850	1497	1	14.0	8.2	2	80	257	7
1011	* 7		22.8	3.3																						

## ASIA—THAILAND

UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND				
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	SPEED	
mb	gpm		°C	°C		%	°	mps	mb		°C	°C		%	°	mps	mb	gpm		°C	°C		%	°	mps
ASIA - THAILAND SONGKHLA 48568 0712N 10036E OB 1								ASIA - VIET NAM HA NOI 48820 2101N 10548E OB 1								ASIA - VIET NAM DA NANG 48855 1602N 10811E OB 1									
030								030								030									
050	20561	7	-67.6		7	86	270	6	050	20658	12	-67.0	9.3			050									
100	16544	3	-81.8		3	89	80	9	100	16659	4	-75.9	7.8			100									
150	14199	2	-68.1		2	94	110	10	150	14238	0	-62.3	9.4	9	100	265	13	150							
200	12401	1	-53.6		1	77	115	6	200	12408	0	-50.2	12.4	9	96	263	13	200	12466	1	-55.5	9.2			
300	9671	0	-31.1	10.4	0	85	110	6	300	9649	0	-30.8	12.1	4	92	274	13	300	9697	1	-29.6	12.3			
500	5852	0	-5.4	2.0	0	86	100	6	500	5831	0	-6.4	10.4	1	89	280	8	500	5866	2	-5.0	12.0	5	40	240
700	3135	0	9.6	6.6	0	61	95	3	700	3126	0	9.7	8.0	0	93	283	7	700	3146	1	9.9	7.2	3	40	294
850	1492	0	18.7	3.7	0	15	285	1	850	1480	0	18.1	4.7	0	64	247	4	850	1496	1	20.3	9.3	4	57	234
1008	*	5	24.7	1.4				1008	*	6	22.1	1.3				1008	*	7	24.5	1.4					
ASIA - CHINA HAILAR 50527 4913N 11945E OB 1								ASIA - CHINA URUMQI 51463 4347N 08737E OB 1								ASIA - CHINA LANZHOU 52889 3603N 10353E OB 1									
030	23731	10	-52.1	10.2	9	67	266	2	030	23755	18	-53.5	8.7	9	83	263	3	030	23755	11	-54.0		9	83	290
050	20447	6	-52.7	9.9	7	78	270	4	050	20474	5	-57.3	8.9	7	89	280	4	050	20522	3	-61.5		7	88	277
100	15991	4	-53.5	9.3	4	93	284	7	100	16111	2	-58.0	9.2	1	100	274	9	100	16277	2	-63.3		2	100	272
150	13375	2	-54.5	8.9	4	83	293	8	150	13548	2	-56.9	9.0	1	95	271	10	150	13752	2	-57.8	6.8	2	97	273
200	11539	2	-55.9	8.2	4	77	296	9	200	11727	1	-58.8	8.2	1	92	269	11	200	11934	2	-58.1	6.4	2	94	274
300	8961	2	-52.2	6.9	5	60	303	8	300	9159	1	-50.0	8.0	0	86	268	10	300	9316	1	-44.0	6.4	1	96	278
500	5466	0	-26.3	10.4	2	65	307	6	500	5614	0	-22.5	9.9	0	83	282	5	500	5671	0	-16.6	6.9	0	70	279
700	2951	0	-9.7	9.6	1	42	297	3	700	3055	0	-4.9	11.0	0	50	314	2	700	3060	0	-0.9	6.3	0	33	2
850	1422	0	0.1	11.4	0	36	285	2	850	1501	0	4.4	11.6	0	14	38	1	850	*1518	7.0	5.7				
940	*	611	1.0	6.4				913	*	919	5.3	9.6				850		21	5.0	9.0	0	68	0		
ASIA - CHINA BEIJING 54511 3956N 11617E OB 1								ASIA - CHINA LHASA 55591 2940N 09108E OB 1								ASIA - CHINA KUNMING 56778 2501N 10241E OB 1									
030	23773	2	-53.5	14.8	2	84	254	3	030	23794	3	-62.8		6	67	295	2	030	23788	11	-53.1		9	40	42
050	20516	0	-57.9	14.2	0	93	279	5	050	20565	3	-62.6		5	73	300	2	050	20574	10	-63.7		9	50	284
100	16187	0	-59.1	12.5	0	98	279	12	100	16445	1	-69.9		3	92	270	12	100	16547	8	-77.8		7	96	268
150	13630	0	-56.5	11.9	0	98	272	15	150	13986	1	-60.5		3	95	265	20	150	14156	6	-64.1		6	97	16
200	11811	0	-58.3	12.2	0	96	274	15	200	12154	0	-52.5		2	98	273	23	200	12343	6	-51.4	12.5	6	94	270
300	9213	0	-47.0	10.5	0	92	280	13	300	9452	0	-38.0	12.6	1	94	278	17	300	9599	3	-32.1	13.0	5	91	270
500	5633	0	-20.7	14.5	0	79	286	6	500	5739	0	-10.0	14.6	0	77	252	4	500	5799	0	-7.3	14.1	0	95	275
700	3056	0	-3.0	16.3	0	65	299	3	650	*3650	0	-3.4	6.9					700	3107	0	7.7	8.4	0	94	267
850	1489	0	6.5	16.2	0	46	314	2	850								809	*1892	12.9	7.1					
1010	*	55	12.0	11.1				1011	*	8	20.5	1.8				1013	*	56	16.8	7.0					
ASIA - CHINA SHANGHAI 58367 3110N 12126E OB 1								ASIA - CHINA GUANGZHOU 59287 2308N 11319E OB 1								AFRICA - MADEIRA FUNCHAL 08522 3238N 01654W OB 3									
030	23808	12	-53.3		9	40	284	2	030	23786	6	-55.3		6	67	70	2	030	23790	0	-53.9		0	66	250
050	20602	4	-62.4		6	88	275	4	050	20612	2	-67.6		2	60	315	2	050	20550	0	-59.5		0	82	280
100	16437	2	-68.4		2	100	330	15	100	16619	1	-77.0		1	100	263	10	100	16285	0	-64.4		0	94	280
150	13949	1	-59.0	8.5	2	98	269	25	150	14210	1	-63.2		1	97	267	15	150	13780	0	-59.8		0	91	285
200	12119	1	-53.0	8.4	1	98	266	28	200	12390	1	-51.0	10.2	1	97	265	16	200	11985	0	-59.2		0	85	295
300	9430	1	-39.0	7.7	1	97	269	17	300	9636	0	-31.7	11.8	1	96	264	14	300	9365	0	-44.0		0	75	300
500	5718	0	-12.3	8.7	0	94	269	9	500	5826	0	-6.9	12.7	0	94	265	9	500	5730	0	-15.4	20.3	0	76	335
700	3070	0	2.0	10.1	0	63	273	3	700	3126	0	8.4	5.9	1	100	254	7	700	3105	0	10.1	28.9	0	72	335
850	1479	0	9.0	9.3	0	14	307	1	850	1495	0	15.6	2.7	0	88	215	4	850	1523	0	7.4	9.6	0	62	340
1014	*	7	13.6	3.2				1011	*	8	20.5	1.8				1013	*	56	16.8	7.0					
AFRICA - CAPE VERDE SAL 08594 1644N 02257W OB 2								AFRICA - MOROCCO CASABLANCA 60155 3334N 00740W OB 2								AFRICA - ALGERIA DAR-EL-BEIDA 60390 3643N 00315E OB 3									
030								030								030									
050								050								050									
100								100								100	16210	12	-59.5		9	97	260		
150								150								150	13654	1	-56.4		4	93	260		
200								200								200	11827	0	-57.0		3	81	260		
300								300	9280	0	-44.3					300	9213	0	-46.2		8	270	17		
500	5873	0	-7.9	17.1	0	90	255	10	500	5673	0	-17.3	13.6	0	78	286	11	500	5623	0	-9.0	14.3	0	73	260
700	3175	0	9.6	20.3	0	69	345	5	700	3069	0	0.0	14.6	1	70	288	7	700	3033	0	0.2	12.1	0	82	270
850	1532	0	19.0	24.1	0	30	25	2	850	1494	0	7.3	11.1	1	64	318	6	850	1465	0	7.0	10.8	0	73	260
* 55		21.6	6.8					1011	*	62	17.0					1010	*	25	16.0	6.1					

AFRICA-ALGERIA

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND											
PRESSURE	HEIGHT	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	% STEADINESS	DIRECTION	SPEED mps	PRESSURE	HEIGHT	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	% STEADINESS	DIRECTION	SPEED mps	PRESSURE	HEIGHT	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	% STEADINESS	DIRECTION	SPEED mps						
mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps						
AFRICA - ALGERIA BECCHAR 60571 3137N 00214W OB 3								AFRICA - ALGERIA TAMANRASSET 60680 2247N 00531E OB 2								AFRICA - MALI BAMAKO/SENOU 61291 1232N 00757W OB 3																
030								030	23804	9	-52.4					030	16575	0	-80.4					030	16575	0	-80.4					
050								050	20566	7	-59.5					050	14223	0	-68.2					050	14223	0	-68.2					
100	16324	7	-64.4					100	16480	3	-75.5					100	12435	0	-54.0					100	12435	0	-54.0					
150	13814	0	-59.0					150	14087	2	-65.9					150	9703	0	-31.7	15.8	0	63	240	5	150	9703	0	-31.7	15.8	0	63	240
200	12002	0	-56.9		9	94	270	29	200	12303	2	-55.5				200	5887	0	-6.3	15.3	0	25	140	1	200	12435	0	-54.0				
300	9362	0	-43.3		9	67	270	21	300	9597	2	-35.3	8.8	9	82	300	1518	0	25.0	28.2	0	61	50	3	300	9703	0	-31.7	15.8	0	63	240
500	5715	0	-15.5	20.5	1	67	280	12	500	5641	2	-9.8	16.4	2	76	500	1518	0	25.0	28.2	0	61	50	3	500	5887	0	-6.3	15.3	0	25	140
700	3092	0	2.6	16.2	0	71	270	8	700	3272	2	9.7	24.7	2	78	700	3178	0	10.8	16.3	0	83	70	4	700	3272	0	9.7	24.7	2	78	70
850	1491	0	13.7	18.2	0	75	210	4	850	1509	2	25.3	36.3	2	62	850	1518	0	25.0	28.2	0	61	50	3	850	1509	2	25.3	36.3	2	62	50
919	* 773		19.0	21.1				864	* 1378		27.9	34.5			864	* 381		32.4	23.9					864	* 381		32.4	23.9				
AFRICA - SENEGAL DAKAR/YOFF 61641 1444N 01730W OB 3								AFRICA - UNITED KINGDOM (OCEAN IS.) ST. HELENA IS. 61901 1556S 00540W OB 2								AFRICA - FRANCE (OCEAN ISLANDS) MARTIN DE VIVIES/IILE AMST. 61996 3748S 07732E OB 2																
030								030	23805	7	-55.3					030	23864	4	-53.0					030	23864	4	-53.0					
050								050	20609	1	-64.5					050	20628	2	-59.8					050	20628	2	-59.8					
100	16564	1	-78.1					100	16561	0	-80.3					100	16363	0	-65.4					100	16363	0	-65.4					
150	14198	0	-67.9					150	14204	0	-67.0					150	13881	0	-61.6					150	13881	0	-61.6					
200	12413	0	-54.2					200	12411	0	-53.5					200	12083	0	-56.8					200	12083	0	-56.8					
300	9685	0	-32.6	15.2				300	9681	0	-32.6	24.6	0	85	300	9419	0	-39.5					300	9419	0	-39.5						
500	5884	0	-7.2	16.5				500	5875	0	-4.5	35.6	0	22	500	5736	0	-14.1	18.8	0	83	272	26	500	5736	0	-14.1	18.8	0	83	272	
700	3181	0	10.1	14.3				700	3154	0	10.4	29.5	0	17	700	3101	0	1.4	19.7	0	71	275	10	700	3101	0	1.4	19.7	0	71	275	
850	1529	0	29.9	23.8				850	1526	0	13.1	2.9	0	94	850	1519	0	7.2	8.5	0	68	276	8	850	1519	0	7.2	8.5	0	68	276	
919	* 24		20.8	5.3				966	* 436		21.0	3.4			966	* 1276		19.8	8.9					966	* 1276		19.8	8.9				
AFRICA - FRANCE (OCEAN ISLANDS) PORT-AUX-FRANCAIS(ILES KER.) 61998 4921S 07015E OB 2								AFRICA - ETHIOPIA ADDIS ABABA 63450 0859N 03848E OB 2								AFRICA - MADAGASCAR ANTANANARIVO/IVATO 67083 1848S 04729E OB 3																
030	23693	4	-52.9		8	97	275	16	030							030								030								
050	20429	3	-55.6		4	97	273	18	050	20560	7	-65.4				050								050								
100	16028	1	-57.1		1	96	271	25	100	16549	0	-81.4				100								100								
150	13457	0	-55.0		0	94	271	32	150	14200	0	-67.6				150								150								
200	11616	1	-54.2		1	93	270	36	200	12411	0	-53.5	16.9	0	60	200								200								
300	8979	0	-45.3		0	89	269	39	300	9670	0	-31.5	18.5	0	50	300								300								
500	5406	0	-22.2	10.0	0	91	270	30	500	5857	0	-6.3	6.4	0	40	500								500								
700	2855	0	-7.4	10.1	0	90	269	23	700	3140	0	11.7	3.9	0	75	700								700								
850	1323	0	-0.5	5.7	1	89	272	17	850	* 2324		20.5	6.7			850								850								
919	* 30		8.1	3.8				870	* 1344		14.2	2.0			870	* 1200		14.0	3.1				870	* 1200		14.0	3.1					
AFRICA - ZIMBABWE HARARE (BELVEDERE) 67774 1750S 03101E OB								AFRICA - ZIMBABWE BULAWAYO (GOETZ OBSY.) 67964 2009S 02837E OB								AFRICA - SOUTH AFRICA PIETERSBURG 68174 2352S 02927E OB 1																
030								030	23889	8	-53.0					030	23821	5	-53.1					030	23821	5	-53.1					
050								050	20671	5	-63.4					050	20608	3	-63.2					050	20608	3	-63.2					
100								100	16576	3	-76.6					100	16498	1	-74.8					100	16498	1	-74.8					
150	13264	14	-62.3		8	83	276	15	150	14187	2	-65.5				150	14100	1	-65.7					150	14100	1	-65.7					
200	12414	8	-53.1	15.1	2	94	273	18	200	12384	1	-53.3	15.1	1	91	200								200								
300	9577	0	-32.1	16.2	0	83	284	12	300	9653	0	-33.2	13.1	0	97	300								300								
500	5875	0	-6.6	14.9	0	25	288	2	500	5858	0	-8.2	10.0	1	57	500								500								
700	3170	0	7.6	7.4	0	70	98	4	700	3170	0	7.8	9.3	1	33	700								700								
850	1542	0	15.6	3.6	0	75	72	3	850	1542	0	15.5	6.2	0	83	850								850								
919	* 1472		15.8	3.1				870	* 1344		14.2	2.0			870	* 1200		14.0	3.1				870	* 1200		14.0	3.1					
AFRICA - SOUTH AFRICA PRETORIA (IRENE) 68263 2555S 02813E OB 1								AFRICA - SOUTH AFRICA UPINGTON 68424 2824S 02116E OB 1								AFRICA - SOUTH AFRICA BLOEMFONTEIN (J.B.M. HERTZOG) 68442																

## AFRICA - SOUTH AFRICA

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND						
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	
mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps	mb	gpm		°C	°C		%	o	mps	
<b>AFRICA - SOUTH AFRICA DURBAN (LOUIS BOTHA) 68588 29585 03057E OB 1</b>																											
030	23877	3	-53.1		5	61	103	3	030	23878	4	-54.0		6	38	189	2	030	23889	11	-54.2		9	22	212	1	
050	20648	2	-61.1		2	38	105	2	050	20640	1	-59.6		1	74	293	4	050	20656	5	-59.6		6	91	287	5	
100	16448	1	-69.4		1	97	280	14	100	16390	0	-66.8		0	92	273	15	100	16405	4	-66.5		5	90	274	13	
150	14000	1	-63.2		1	95	275	22	150	13917	0	-62.5		0	85	264	20	150	13933	3	-61.9		4	89	272	16	
200	12201	1	-55.2		1	91	271	24	200	12124	0	-57.4		0	68	263	18	200	12135	1	-57.2		2	78	269	15	
300	9528	1	-39.0	11.3	1	77	273	15	300	9479	0	-40.4	11.2	0	60	266	13	300	9485	1	-40.8	12.2	1	57	268	10	
500	5823	1	-11.6	14.7	1	71	271	7	500	5791	0	-12.3	18.4	0	52	285	7	500	5801	1	-12.4	18.6	1	69	277	8	
700	3164	1	4.7	8.9	1	24	235	2	700	3138	0	4.5	18.6	0	36	310	3	700	3150	1	3.9	13.8	1	71	290	6	
850	-1551	1	14.6	7.5	1	18	290	1	850	1528	0	14.1	16.3	0	5	84	1	850	1543	1	13.3	9.1	1	21	345	2	
1017	*	8	20.7	3.1					1012	*	42	14.1	1.6					1011	*	60	6.7	2.1					
<b>AFRICA - SOUTH AFRICA GOUGH ISLAND 68906 40215 00953W OB 1</b>																											
030	23808	2	-53.6		3	98	275	14	030	20470	10	-56.2		0	94	268	24	030	23773	5	-55.2		6	44	295	2	
050	20562	0	-58.2		0	97	275	14	050	16089	5	-58.0		6	94	268	24	050	20510	3	-54.2		3	75	246	5	
100	16268	0	-64.5		0	95	277	25	100	13533	5	-56.4		5	92	273	31	100	16048	2	-52.9		2	76	234	5	
150	13781	0	-62.4		0	94	274	33	150	11711	4	-56.9		4	92	276	33	150	13426	1	-51.3		1	65	223	6	
200	11994	0	-59.3		0	92	273	36	200	9092	4	-46.2	11.6	4	89	280	30	200	11557	1	-52.7		1	59	215	8	
300	9358	0	-41.4	10.4	0	89	278	31	300	5507	4	-20.1	13.7	4	91	267	23	300	8955	1	-50.8		1	46	199	10	
500	5695	0	-14.9	17.0	0	86	276	21	500	2935	4	-5.3	16.0	4	88	270	16	700	2939	0	-12.2	6.1	0	79	163	7	
700	3073	0	-0.3	16.3	0	85	273	14	850	1394	4	0.9	6.7	4	82	285	11	850	1431	0	-4.0	4.9	0	68	132	4	
850	1497	0	6.7	10.6	0	73	271	9	1006	*	22	5.9	1.8					1010	*	40	1.7	5.3					
1012	*	54	13.1	3.2																							
<b>N AMERICA - USA COLD BAY, AK. 70316 5512N 16243W OB 2</b>																											
030	23741	13	-55.9		9	60	182	3	030	23738	6	-57.0		7	63	339	3	030									
050	20490	10	-54.9		9	60	182	3	050	20521	4	-56.4		6	67	290	4	050									
100	16041	2	-53.8		2	58	236	4	100	16071	0	-53.5		0	81	250	5	100	16068	6	-53.8		6	88	255	11	
150	13415	0	-51.5		0	59	248	6	150	13453	0	-52.3		0	68	238	5	150	13449	4	-51.4		4	85	261	16	
200	11548	0	-52.4		1	60	257	9	200	11595	0	-54.1		1	56	242	6	200	11586	4	-52.8		4	83	265	22	
300	8922	0	-49.0		0	46	262	9	300	8995	0	-50.2		0	32	220	5	300	8949	4	-47.0		4	75	267	24	
500	5406	0	-26.5	7.3	0	33	262	5	500	5485	0	-26.2	6.7	0	42	195	5	500	5408	1	-25.5		7.9	1	67	257	15
700	2900	0	-12.4	6.9	0	27	251	3	700	2972	0	-10.5	5.2	0	58	183	5	700	2893	1	-11.2	8.3	1	62	253	10	
850	1397	0	-6.0	4.8	0	15	219	2	850	1453	0	-2.4	5.4	0	49	161	3	850	1383	1	-4.8	4.5	1	45	240	6	
1010	*	31	0.1	2.3					1016	*	9	0.4	1.1					1005	*	31	2.0	3.5					
<b>N AMERICA - USA LONGVIEW, TX. 72247 3221N 09439W OB 2</b>																											
030	23793	5	-52.8						030	23814	12	-52.6						030	23745	7	-54.5		8	86	268	6	
050	20548	5	-60.4						050	20573	12	-60.9						050	20532	6	-62.2		6	63	320	3	
100	16319	2	-65.3						100	16418	4	-69.8		4	90	269	15	100	16318	4	-66.4		4	75	272	11	
150	13827	2	-61.9		6	90	277	24	150	13957	3	-62.0		3	92	261	20	150	13838	4	-63.1		4	80	269	15	
200	12053	2	-61.5		6	79	282	23	200	12166	3	-59.4		3	83	263	19	200	12069	4	-61.1		4	72	274	14	
300	9429	1	-42.2		4	81	283	19	300	9519	3	-39.7		3	75	267	10	300	9437	2	-42.5		2	74	263	9	
500	5762	0	-14.4	8.7	3	84	290	13	500	5813	2	-11.9		2	70	296	7	500	5769	1	-13.3		1	74	263	9	
700	3114	0	4.0	10.5	4	73	290	8	700	3139	2	7.3		2	46	299	3	700	3110	1	5.3		1	48	281	4	
850	1509	0	11.8	11.5	3	56	249	5	850	1512	2	16.4	7.4	2	73	179	5	850	1496	1	14.3		1	69	307	4	
1001	*	124	14.3	3.8					1012	*	6	19.9	1.2					999	*	9	14.2	1.9					
<b>N AMERICA - USA NASHVILLE/OLD HICKORY, TN. 72327 3615N 08634W OB 2</b>																											
030	23781	5	-53.4						030	23753	4	-53.6		4	78	260	5	030	23782	8	-52.7		9	77	236	3	
050	20524	1	-59.0						050	20514	3	-59.8		3	84	285	5	050	20519	3	-57.1		6	81	258	6	
100	16232	1	-61.8						100	16243	1	-62.4		1	90	282	15	100	16174	3	-59.8		5	88	271	21	
150	13702	0	-58.7						150	13710	0	-59.3		1	92	283	24	150	13621	3	-56.8		5	88	270	26	
200	11903	0	-59.7						200	11914	0	-60.3		0	84	280	29	200	11814	2	-58.2		4	85	266	32	
300	9286	0	-44.1		4	83	281	24	300	9304	0	-44.4		0	84	282	27	300	9195	2	-45.3		3	82	262	30	
500	5661	0	-17.6	7.0	1	89	278	19	500	5681	0	-17.5	7.3	0	87	280	19	500	5590	0	-19.8	6.7	2	85	265	22	
700	3062	0	-2.1	6.0	0	85	281	10	700	3073	0	-0.3	9.7	0	83	283	9	700	3017	0	-5.1	8.2	1	87	273	13	
850	1493	0	6.1	7.0	1	81	285	7	850	1493	1	9.0	10.7	0	66	269	7	850	1468	0	2.4	6.6	1	78	276	8	
995	*	180	9.6	3.2					964	*	437	9.7	3.7					1006	*	9	5.9	3.5					

N AMER-USA

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND				
PRESSURE	HEIGHT	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	PRESSURE mb	HEIGHT	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	PRESSURE mb	HEIGHT	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps	
mb	gpm		-°C	°C		%	°	mps	mb		-°C	°C		%	°	mps	mb		-°C	°C		%	°	mps	
N AMERICA - USA SULPHUR GROVE, OH. 72429 3952N 08407W OB 2																									
030	23758	7	-53.3					030	23688	4	-54.9					030	23696	9	-58.2						
050	20503	5	-57.8					050	20469	3	-60.2					050	20502	6	-61.9						
100	16167	2	-59.2					100	16168	1	-60.7					100	16215	3	-61.2						
150	13601	0	-56.0		9	85	278	20	150	13626	1	-57.8				150	13682	3	-59.1						
200	11777	0	-57.9		9	86	280	25	200	11816	1	-58.5				200	11872	2	-58.5						
300	9163	0	-46.0		4	85	284	24	300	9208	1	-46.7				300	9254	1	-45.6						
500	5579	0	-21.0	8.5	0	85	281	18	500	5625	0	-20.0	6.5	0	84	289	17	500	5654	0	-18.9				
700	3014	0	-5.7	5.0	0	89	281	12	700	3038	0	-1.8	8.8	0	75	297	9	700	3061	0	-2.4				
850	1466	0	2.4	6.0	0	75	275	7	850	1465	0	6.7	10.4	0	41	311	4	850	1493	0	6.5	6.7	0	52	206
980	* 306		5.8	4.0				916	* 849		3.4	3.6				970	* 405		8.3	2.5					
N AMERICA - USA ST. CLOUD/WHITNEY, MN. 72655 4533N 09404W OB 2																									
030	23712	6	-54.7		8	32	292	2	030	23722	4	-53.7				030	23724	3	-54.3						
050	20461	1	-57.0		2	80	305	5	050	20445	2	-55.5				050	20478	2	-57.7						
100	16086	0	-56.5		1	92	297	14	100	16034	0	-55.1				100	16100	0	-56.8						
150	13501	0	-54.6		1	93	291	20	150	13430	0	-52.8				150	13516	0	-54.7						
200	11662	0	-55.4		1	88	288	24	200	11577	0	-53.9				200	11684	0	-56.3						
300	9050	0	-49.1		1	83	293	22	300	8958	0	-49.6				300	9073	0	-48.3						
500	5515	0	-24.1	9.0	1	83	298	15	500	5450	0	-26.8	6.1	0	82	304	15	500	5534	0	-23.7	6.7	0	76	299
700	2978	0	-7.9	9.1	1	73	307	9	700	2942	0	-11.3	7.4	0	74	315	9	700	2988	0	-7.0	5.2	0	70	303
850	1444	0	-0.4	6.6	1	33	321	3	850	1429	0	-3.8	6.6	0	42	322	4	850	1449	0	1.0	7.1	0	41	326
977	* 312		1.3	3.8				972	* 361		-2.4	3.3				955	* 506		1.7	3.1					
N AMERICA - USA GREAT FALLS/INTL. MT. 72775 4729N 11122W OB 2																									
030	23694	8	-56.4		9	43	25	2	030	23696	8	-57.9				030	23715	11	-58.5						
050	20469	6	-59.6		8	60	335	4	050	20497	6	-60.5				050	20512	5	-60.2						
100	16136	2	-58.1		7	72	294	9	100	16157	3	-57.7				100	16179	4	-58.1						
150	13565	2	-56.3		7	65	291	13	150	13584	3	-55.7				150	13611	4	-55.9						
200	11746	2	-58.0		7	58	293	15	200	11761	2	-57.4				200	11790	4	-57.8						
300	9152	1	-48.3		2	53	291	16	300	9158	1	-47.4				300	9175	4	-46.8						
500	5589	1	-21.8	6.5	2	58	290	12	500	5592	0	-21.7	7.1	0	64	268	16	500	5591	3	-21.3	7.4	0	68	254
700	3030	1	-6.2	5.2	2	62	296	6	700	3030	0	-5.4	5.6	0	43	258	4	700	3027	2	-5.2	7.4	2	61	238
850	1482	1	3.1	8.4	2	34	293	2	850	1477	0	4.6	11.1	0	20	210	2	850	1478	2	3.1	6.5	2	47	215
889	* 1115		2.1	4.5				1001	* 69		23.9	1.6				1010	* 62		6.5	1.7					
N AMERICA - JAMAICA KINGSTON/NORMAN MANLEY 78397 1756N 07647W OB 2																									
030	23810	12	-52.7		9	99	85	10	030	23843	3	-54.3				030	23797	6	-53.7						
050	20580	12	-63.3		9	73	75	4	050	20591	3	-65.9				050	20681	4	-65.5						
100	16533	12	-76.6		9	97	256	14	100	16572	5	-77.7				100	16638	5	-81.7						
150	14131	12	-64.3		9	96	266	24	150	14363	3	-64.5				150	14276	5	-66.6						
200	12331	12	-54.9		9	94	267	30	200	9689	13	-31.3	12.1	7	56	78	2	200	12384	3	-53.1				
300	9627	12	-35.1	15.6	9	93	270	20	300	5866	10	-5.2	12.8	7	80	74	5	300	9652	4	-32.4	14.9	8	94	284
500	5858	12	-6.7	23.7	9	78	261	8	500	3144	9	9.9	9.7	4	80	74	5	500	5860	2	-6.0	19.5	4	50	12
700	3153	11	7.9	15.4	9	63	113	5	700	1504	7	17.0	2.9	2	92	15	7	700	3151	1	7.1	12.3	1	70	103
850	1528	11	15.5	4.2	9	99	97	8	850	1001		23.9	1.6			850	1537	1	13.4	3.4	2	94	104		
1014	* 14		25.5	6.2												1016	* 8		24.1	3.9					
N AMERICA - TRINIDAD AND TOBAGO PIARCO INTL AIRPORT, TRINIDAD 78970 1037N 06121W OB 3																									
030									030	23843	3	-54.3				030	23843	8	-58.7						
050									050	20636	1	-64.7				050	20681	4	-65.5						
100									100	16593	0	-78.8				100	16638	5	-81.7						
150									150	14220	0	-66.5				150	14276	5	-66.6						
200									200	12428	0	-53.7				200	12474	5	-52.4						
300									300	9695	0	-32.1	11.3	1	84	260	10	300	9719	5	-30.9	8.2	4	74	104
500	5872	1	8.8	17.3	1	58	90	3	500	5881	0	-4.4	18.6	0	48	96	2	500	5887	5	-5.7	5.6	4	83	84
700	3155	1	16.0	4.7	1	94	100	8	700	3155	0	10.1	16.0	0	49	102	2	700	3164	5	9.0	5.1	4	83	92
850	1523	1	25.0	2.9					850	1515	0	18.1	6.6	0	96	100	9	850	1525	5	17.4	4.5	4	99	89
1012	* 15								1005	* 62		26.1	4.1			1011	* 16		25.5	3.6					
N AMERICA - CURACAO AND BONAIRE HATO AIRPORT, CURACAO 78988																									

S AMER-BRAZIL

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND				
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT	MISSING DAYS	STEADINESS	DIRECTION		
mb	gpm		°C	°C		%	o	mps	mb	gpm	°C	°C		%	o	mps	mb	gpm	°C	°C		%	o	mps	
S AMERICA - BRAZIL MANAUS (AEROPORTO) 82332 0309S 05959W OB 2	S AMERICA - BRAZIL FORTALEZA 82397 0344S 03833W OB 2	S AMERICA - BRAZIL FERNANDO DE NORONHA 82400 0351S 03225W OB 2																							
030								030								030									
050								050								050									
100	16629	14	-81.3			9	23	104	2	100	16526	8	-81.1			100	16569	14	-79.6						
150	14271	14	-65.5			9	78	133	7	150	14211	7	-68.9			150	14239	13	-67.6						
200	12455	14	-51.7			9	96	129	11	200	12433	7	-53.9			200	12449	13	-53.4						
300	9696	14	-30.6	10.1		9	99	118	9	300	9697	8	-31.1	9.1		300	9712	13	-31.4	8.9		9	20		
500	5868	14	-6.0	5.1		9	90	96	5	500	5870	7	-5.3	4.7		500	5879	13	-5.5	5.7		9	64	73	
700	3153	14	8.2	3.0		9	78	95	4	700	3153	6	9.5	3.8		700	3157	13	9.4	4.0		9	90	74	
850	1515	14	17.0	2.7		9	90	57	5	850	1516	6	17.6	3.8		850	1519	13	17.8	3.3		9	56	95	
1002	* 84		24.8	2.0				1000	*	19		25.7	2.3			1005	*	56		27.0	2.8				
S AMERICA - ARGENTINA NEUQUEN AERO 87715 38575 06808W OB 2	ANTARCTICA - SOUTH AFRICA S.A.N.A.E. STATION 89001 7018S 00221W OB 1	ANTARCTICA - UNITED KINGDOM HALLEY 89022 7530S 02639W OB 2																							
030	23841	2	-52.3			1	92	267	10	030	22854	7	-64.3			9	96	265	20	030	22761	5	-65.3		
050	20586	1	-58.0			1	90	261	9	050	19769	3	-61.5			4	95	264	17	050	19632	3	-63.0		
100									100	15433	3	-57.1			3	86	269	12	100	15319	2	-58.0			
150	13784	1	-60.2			1	95	264	20	150	12856	3	-55.0			3	91	265	10	150	12745	2	-54.6		
200	11977	1	-57.3			0	89	263	27	200	11016	3	-54.6			3	90	260	12	200	10896	2	-52.9	15.5	
300	9333	0	-43.0	13.7		0	82	265	25	300	8446	2	-55.4	5.5		2	69	258	10	300	8305	2	-57.0	10.3	
500	5688	0	-15.8	17.6		0	92	262	19	500	5027	2	-32.7	5.9		2	49	306	5	500	4954	2	-38.3	8.9	
700	3066	0	1.0	26.0		0	87	256	11	700	2600	2	-20.6	7.2		2	25	16	2	700	2572	2	-24.4	8.3	
850	1482	0	9.8	15.3		0	76	254	7	850	1142	2	-13.2	6.1		2	63	65	6	850	1139	2	-17.6	5.9	
982	* 271		8.7	4.7				981	*	62		-21.0	2.5			985	*	32		-20.7	5.1				
ANTARCTICA - AUSTRALIA CASEY 89611 6616S 11032E OB 1	SW PACIFIC - USA (PACIFIC OCEAN NORTH) MIDWAY ISLAND 91066 2813N 17722W OB 2	SW PACIFIC - USA (PACIFIC OCEAN NORTH) LIHUE, KAUAI, HAWAII 91165 2159N 15921W OB 2																							
030	23240	5	-57.4			4	97	289	25	030	20545	7	-61.4			8	18	351	1	030	23821	5	-53.4		
050	20002	2	-55.5			1	96	290	21	050	16388	3	-71.0			3	86	299	14	050	20589	5	-61.0		
100	15550	0	-52.2			0	95	290	16	100	13960	3	-66.4			3	88	295	23	100	16410	2	-71.1		
150	12915	0	-50.5			0	93	289	14	150	12200	2	-60.3			1	70	300	18	150	13973	0	-65.2		
200	11038	0	-50.0			0	90	288	13	200	9546	1	-39.2			1	69	298	11	200	12199	0	-58.1		
300	8424	0	-55.5			0	72	286	12	300	5829	0	-10.9	11.5	0	33	272	3	300	9533	0	-38.3			
500	5015	0	-33.8	9.4		0	61	276	7	500	3164	0	4.7	14.9	1	20	86	1	500	5807	0	-10.5			
700	2590	0	-20.8	7.3		1	19	306	2	700	1562	1	9.7	6.1	1	58	102	5	700	3133	0	4.7	12.1		
850	1136	0	-14.9	4.1		0	57	38	4	850	1022	*	13	19.4	6.1			1013	*	45		21.2	4.5		
SW PACIFIC - USA (PACIFIC OCEAN NORTH) HILO/GEN. LYMAN, HAWAII, 91285 1943N 15504W OB 2	SW PACIFIC - USA (PACIFIC OCEAN NORTH) TRUK, CAROLINE IS. 91334 0728N 15151E OB 1	SW PACIFIC - VANUATU BAUERFIELD (EFATE) 91557 1742S 16818E OB 1																							
030	23767	12	-53.9			4	91	270	16	030	23847	16	-55.7			9	95	263	12	030	23803	0	-55.6	26.7	0
050	20553	12	-63.2			1	91	268	30	050	20648	9	-64.4			3	81	54	7	050	20618	0	-51.3	22.6	0
100	16395	4	-72.8			4	91	272	26	100	16619	3	-81.7			4	22	218	2	100	16593	0	-86.0	13.5	0
150	13978	1	-66.4			1	75	264	14	150	14276	2	-67.6			4	50	199	4	150	14239	0	-50.0	12.6	1
200	12203	1	-57.8			2	84	272	26	200	12553	2	-52.3			4	50	199	4	200	12442	0	-52.3	12.9	1
300	9533	1	-37.9			1	75	264	14	300	9720	2	-29.3	7.5		3	10	159	1	300	9688	0	-30.0	12.4	0
500	5802	1	-10.8			1	51	266	4	500	5871	2	-4.7	4.3	3	37	110	3	500	5853	0	-4.8	11.7	0	
700	3133	1	4.5	3.0	0	19	210	1	700	3146	2	9.9	5.6	3	35	159	3	700	3130	0	10.2	9.1	0		
850	1525	1	12.3	1.4	1	52	55	2	850	1503	2	16.7	2.8	4	37	140	3	850	1488	0	17.7	4.1	0		
1014	* 11		19.7	1.8				1008	*	2		28.0	4.9			1006	*	21		27.7	4.0				
SW PACIFIC - NEW CALEDONIA NOUMEA (NLLE-CALEDONIE) 91592 2216S 16627E OB 1	SW PACIFIC - NEW ZEALAND (TUVALU) FUNAFUTI 91643 0831S 17913E OB 1	SW PACIFIC - USA (SAMOA) PAGO PAGO/INT. AIRPORT 91765 1420S 17043W OB 2																							
030	23851	23	-54.4			9	99	90	13	030	23768	3	-55.4			9	56	204	9	030	23824	8	-53.9		9
050	20633	9	-63.3			9	93	96	9	050	20580	1	-65.0			3	81	54	7	050	20624	6	-64.8		8
100	16540	3	-77.1			5	78	234	12	100	16530	0	-81.5			100	16547	3	-77.6		5	30	260	3	
150	14164	1	-66.6			1	85	260	20	150	14196	0	-68.9			150	14185	1	-68.3		4	55	243	10	
200	12370	1	-53.4			1	83	260	19	200	12414	0	-54.3			200	12405	1	-54.9		4	51	244	8	
300	9644	1	-33.3	14.6	1	84	261	13	300	9683	0	-31.5	10.6	9	52	163	4	300	9676	1	-32.1	8.6	4		
500	5852	1	-6.6	18.7	1	50	270	5	500	5861	0	-5.6	7.9	9	66	127	3	500	5866	0	-6.4	7.8	3		
700	3143	0	8.4	17.8	1	17	82	1	700	3144	0	9.8	8.7	5	85	96	9	700	3153	0	9.0	5.4	3		
850	1517	0	14.8	5.6	1	60	88	6	850	1502	0	18.1	3.5	3	79	88	6	850	1514	0	17.5	3.2	3		
1006	* 72		25.2	4.7				1009	*	2		29.9	4.7			1010	*	3		25.9	2.0				

SW PAC-N ZEALAND

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND						
PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps	
<b>SW PACIFIC - NEW ZEALAND RAROTONGA</b>																											
91843 2112S 15949W 0B 1																											
030	23876	9	-51.3		7	99	82	14	030	23791	10	-53.7		6	95	79	9	030	20558	4	-66.6		6	95	87	9	
050	20638	5	-62.1		4	98	87	10	050	20584	3	-65.1		0	13	30	1	100	16494	1	-74.4		4	14	5	1	
100	16519	3	-74.6		2	37	298	4	100	16506	0	-74.4		3	30	217	3	150	14108	0	-67.9		1	12	221	2	
150	14138	1	-68.5		2	21	239	4	200	12347	0	-55.4		0	45	189	5	200	12334	0	-55.8		0	8	132	6	
200	12366	1	-56.4		2	31	245	6	300	9636	0	-34.1	11.9	0	44	102	4	300	9631	0	-34.6	12.6	1	50	83	6	
300	9655	1	-33.8	10.8	2	24	306	3	500	5856	0	-7.3	13.4	0	60	53	5	500	5856	0	-7.1	15.2	0	69	96	5	
500	5865	1	-7.4	11.3	2	39	360	3	700	3151	0	9.2	13.3	0	81	70	7	700	3148	0	9.0	12.1	0	93	97	7	
700	3157	0	8.5	7.9	2	51	17	4	850	1519	0	16.6	5.0	0	92	83	6	850	1519	0	16.0	5.3	0	94	92	8	
1000	1524	0	16.7	3.5	1	59	44	5	1012	*	2	30.5	6.8					1013	*	3	29.3	6.4					
<b>SW PACIFIC - FRENCH POLY. (AUSTRAL IS) RAPA</b>																											
91958 2737S 14420W 0B 1																											
030	23899	12	-52.0		9	72	78	6	030	23878	8	-54.6		9	79	265	5	030	23891	12	-54.9		9	79	245	6	
050	20662	7	-62.3		8	23	99	2	050	20662	6	-60.5		6	55	233	4	050	20627	8	-57.4		7	85	248	9	
100	16514	4	-72.7		5	67	258	9	100	16405	5	-65.4		3	80	257	13	100	16262	5	-58.7		7	88	248	18	
150	14122	0	-67.7		1	61	259	11	150	13909	4	-60.6		3	80	257	19	150	13720	5	-58.5		5	86	253	22	
200	12346	0	-55.7		1	59	265	10	200	12099	3	-55.9		3	71	260	19	200	11912	4	-57.9		5	82	256	24	
300	9637	0	-33.9	11.7	0	72	285	11	300	9449	2	-41.3		3	58	257	10	300	9298	1	-44.8		3	79	263	22	
500	5859	0	-7.5	14.2	0	85	292	10	500	5783	1	-14.2	22.1	2	42	233	5	500	5680	1	-17.8	15.7	3	86	257	18	
700	3162	0	7.7	11.6	0	69	294	5	700	3142	1	2.4	23.3	2	31	201	3	700	3043	1	-2.4	15.1	2	81	260	13	
850	1537	0	15.5	4.8	0	67	300	5	850	1554	1	7.8	7.7	3	25	157	2	850	1481	1	3.9	6.4	3	80	272	10	
1000	*	2	26.2	4.3					1012	*	87	18.9	6.4					1021	*	1	12.5	4.3					
<b>SW PACIFIC - NEW ZEALAND CAMPBELL ISLAND</b>																											
93944 5233S 16909E 0B 1																											
030	24127	7	-48.8		31.2	8	91	257	7	030	23744	2	-56.9		2	99	90	18									
050	20896	4	-55.4		29.3	6	87	245	8	050	20572	0	-65.5		0	92	88	9									
100	16228	2	-60.0		28.2	5	90	252	15	100	16576	0	-83.4		0	79	91	9									
150	13667	2	-57.8		24.0	5	85	251	20	150	14239	0	-67.6		0	46	57	5									
200	11853	1	-57.6		15.9	4	79	244	24	200	12448	0	-52.6		0	30	37	3									
300	9245	1	-45.5		11.4	4	80	240	24	300	9695	0	-29.9		0	17	68	2									
500	5636	1	-18.6		15.6	4	84	242	19	500	5861	0	-4.7		12.4	0	49	89	3								
700	3041	1	-2.5		13.1	4	81	244	14	700	3138	0	9.1		5.8	0	74	98	5								
850	1480	1	3.7		10.3	4	72	250	11	850	1498	0	18.8		6.2	0	83	101	8								
1000	*	48	12.9		3.0				1011	*	9	25.0	6.0					1006	*	30	26.7	2.8					
<b>SW PACIFIC - AUSTRALIA GOVE AIRPORT</b>																											
94150 1216S 13649E 0B																											
030	23787	3	-54.7		5	98	81	18	030	23793	4	-54.6		4	98	84	15										
050	20591	2	-64.9		1	97	89	11	050	20599	1	-65.2		1	95	94	11										
100	16571	0	-81.2		0	32	266	3	100	16575	1	-80.9		1	30	241	4										
150	14218	0	-66.6		0	66	294	8	150	14214	0	-66.3		0	74	257	12										
200	12421	0	-52.7		0	59	292	8	200	12417	0	-52.7		0	76	261	12										
300	9678	0	-31.1		0	37	277	4	300	9673	0	-30.8		0	84	268	12										
500	5860	0	-8.4		21.4	0	14	108	1	500	5853	0	-5.1		12.4	0	52	287	5								
700	3140	0	9.6		14.5	0	53	72	5	700	3135	0	8.8		11.6	0	14	58	1								
850	1570	0	19.0		11.2	1	71	82	6	850	1509	0	15.3		5.9	0	61	106	5								
1000	*	9	22.7		5.6				1009	*	9	22.7	5.6					1012	*	6	25.6	5.6					
<b>SW PACIFIC - AUSTRALIA WILLIS ISLAND</b>																											
94299 1618S 14959E 0B																											
030	23777	6	-55.5		99	82	17	030	23808	3	-54.1		3	99	84	15	030	23830	2	-53.5		3	95	82	12		
050	20587	3	-65.3		7	96	91	11	050	20598	1	-64.3		1	97	94	10	050	20617	1	-63.7		2	96	91	10	
100	16576	2	-81.8		4	23	157	3	100	16561	0	-80.9		0	82	279	8	100	16543	0	-78.1		1	77	271	11	
150	14228	2	-67.0		4	70	243	7	150	14201	0	-64.5		0	82	287	15	150	14166	0	-66.1		0	84	263	20	
200	12434	2	-52.9		5	66	259	7	200	12405	0	-53.1		0	85	276	15	200	12370	0	-53.4		0	82	260	21	
300	9687	2	-30.5		4	59	260	5	300	9666	0	-31.7		0	82	276	10	300	9642	0	-33.1		0	90	258	18	
500	5858	1	-4.9	13.5	3	18	12	1	500	5856	0	-5.7	16.5	0	37	272	3	500	5845	0	-6.0	25.7	0	81	247	9	
700	3134	1	10.5	13.4	4	38	42	3	700	3142	0	8.7	12.9	0	44	71	4	700	3145	0	7.0	14.4	0	33	203	3	
850	1500	1	16.6	5.7	3	67	91	7	850	1																	

SW PAC-AUSTRALIA

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND						
PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	PRESSURE	HEIGHT	MISSING DAYS	MEAN	DEW POINT DEPRESSION	MISSING DAYS	STEADINESS	DIRECTION	SPEED	
mb	gpm		°C	°C		%	°	mps	mb	gpm		°C	°C		%	°	mps	mb	gpm		°C	°C		%	°	mps	
SW PACIFIC - AUSTRALIA MT ISA AIRPORT 94332 2039S 13929E 0B																											
030	23810	4	-53.8		6	98	79	16	030	23858	3	-53.5					030	23855	5	-54.5							
050	20609	4	-64.9		5	97	94	12	050	20622	2	-62.7					050	20648	1	-62.7							
100	16570	2	-80.6		3	52	277	5	100	16528	1	-75.0					100	16490	0	-71.7							
150	14213	2	-66.6		2	82	272	16	150	14122	1	-64.0		4	82	265	22	150	14060	0	-62.9		5	88	265	23	
200	12415	2	-52.2		1	81	267	17	200	12315	1	-52.4		2	83	267	24	200	12246	0	-52.6		4	93	269	28	
300	9670	2	-31.5		0	76	255	13	300	9589	1	-34.4		0	83	278	18	300	9538	0	-35.9		4	86	278	21	
500	5853	1	-4.5	23.6	0	61	238	6	500	5826	1	-8.6	13.5	0	62	283	7	500	5800	0	-10.7	9.8	3	61	291	8	
700	3140	1	8.1	13.0	0	60	199	4	700	3147	1	5.5	10.0	0	18	136	2	700	3137	0	4.2	10.9	1	6	252	1	
850	1515	1	16.7	8.4	1	61	112	5	850	1534	1	13.9	6.5	1	53	74	4	850	1534	0	12.2	6.7	1	35	68	3	
974	* 342		25.0	11.1				981	* 304		22.1	7.6					993	* 212		19.8	4.5						
SW PACIFIC - AUSTRALIA BRISBANE AIRPORT 94578 2726S 15305E 0B 1																											
030	23839	6	-53.9		7	90	74	8	030	23869	5	-53.0		9	74	92	4	030									
050	20628	4	-63.5		6	87	71	7	050	20635	0	-60.3		4	28	94	1	050									
100	16513	2	-74.4		2	82	268	11	100	16416	0	-68.9		2	88	276	17	100									
150	14104	2	-64.8		2	92	273	26	150	13964	0	-62.1		1	94	278	31	150	14039	10	-63.2						
200	12301	2	-53.1		2	88	278	28	200	12152	0	-53.6		1	92	283	34	200	12210	1	-53.8						
300	9583	1	-34.1		0	90	281	22	300	9457	0	-38.2		1	84	275	25	300	9505	0	-36.2		91	272	22		
500	5818	0	-9.1	13.1	2	76	288	8	500	5758	0	-12.6	16.0	0	70	278	11	500	5782	0	-12.0	12.1	79	268	11		
700	3137	0	5.7	13.2	1	34	100	3	700	3110	0	3.5	16.6	0	58	359	12	700	3128	0	4.1	12.0	6	68	291	7	
850	1533	0	12.1	4.7	1	66	98	5	850	1512	0	10.7	8.2	2	23	302	2	850	1526	0	11.2	8.5	6	47	348	5	
1017	* 6		22.5	4.5					* 12		15.0	4.1					977	* 360		14.3	4.0						
SW PACIFIC - AUSTRALIA ESPERANCE 94638 3349S 12153E 0B																											
030	23867	4	-53.9		9	23	139	1	030	23857	3	-53.6		3	55	75	3	030	23873	7	-54.1		7	69	77	4	
050	20636	1	-60.0		7	15	277	1	050	20635	3	-61.3		3	83	86	5	050	20657	6	-61.6		6	72	86	5	
100	16395	1	-67.2		5	90	275	19	100	16459	2	-71.2		1	88	274	13	100	16467	2	-70.3		2	89	272	16	
150	13925	1	-61.6		5	93	276	32	150	14027	2	-63.4		1	94	272	28	150	14021	1	-62.4		2	88	269	29	
200	12114	1	-54.2		4	88	274	34	200	12219	2	-53.4		1	93	267	33	200	12206	0	-52.1		1	88	263	31	
300	9434	0	-39.5		3	77	275	20	300	9509	2	-36.2		0	91	270	27	300	9496	0	-36.9		1	85	266	23	
500	5748	0	-13.7	13.8	2	59	280	10	500	5789	2	-11.7	13.4	0	74	264	10	500	5780	0	-12.3	16.7	1	57	260	7	
700	3113	0	1.5	11.3	2	57	269	6	700	3132	2	3.7	14.0	0	48	262	4	700	3131	0	3.0	13.8	0	34	266	3	
850	1527	0	8.5	6.0	1	26	304	2	850	1533	2	10.5	8.8	1	10	196	1	850	1534	0	10.9	11.5	0	19	284	1	
1016	* 26		14.4	2.9					10001	* 160		14.7	4.4					1000	* 167		16.9	5.2					
SW PACIFIC - AUSTRALIA ADELAIDE AIRPORT 94672 3456S 13831E 0B																											
030	23885	4	-55.2		6	10	215	1	030	23882	5	-54.9					030	23873	7	-54.1		9	25	54	1		
050	20664	1	-60.2		2	16	65	1	050	20669	4	-62.0					050	20649	6	-62.2		8	50	101	3		
100	16418	0	-65.9		1	84	270	15	100	16477	1	-69.5					100	16453	1	-68.9		3	85	264	13		
150	13931	0	-59.9		1	85	270	25	150	14017	1	-61.1		6	88	272	25	150	13995	0	-61.6		1	92	270	24	
200	12107	0	-53.1		1	84	265	26	200	12190	1	-51.5		3	89	270	28	200	12181	0	-54.0		0	92	278	27	
300	9429	0	-40.2		1	69	270	16	300	9485	1	-37.5		2	81	277	19	300	9497	0	-38.0		0	84	290	19	
500	5748	0	-14.2	15.8	1	48	265	6	500	5781	1	-22.4	18.1	1	57	272	6	500	5790	0	-12.4	10.7	0	63	309	6	
700	3118	0	1.6	13.2	0	45	275	4	700	3133	1	3.1	11.5	1	16	287	1	700	3141	0	3.0	9.7	0	15	328	1	
850	1531	0	8.6	9.8	0	36	275	2	850	1535	1	11.5	7.7	2	17	66	1	850	1547	0	10.5	4.6	1	22	72	2	
1020	* 4		17.2	6.7					987	* 265		18.6	5.0					1019	* 11		19.7	3.1					
SW PACIFIC - AUSTRALIA MT GAMBIER AIRPORT 94821 3744S 14047E 0B																											
030	23854	2	-55.9		3	16	67	1	030	23867	7	-56.1					030	23860	11	-56.0							
050	20638	1	-59.7		1	19	258	1	050	20654	2	-60.3					050	20662	4	-60.7							
100	16368	0	-64.0		0	83	282	13	100	16384	1	-64.2		5	88	281	15	100	16415	3	-65.9						
150	13864	0	-59.4		0	83	273	21	150	13882	0	-58.9		2	84	271	20	150	13936	2	-60.2						
200	12042	0	-54.2		0	78	270	21	200	12055	0	-54.3		2	75	274	19	200	12116	1	-53.2						
300	9388	0	-41.5		0	60	272	13	300	9395	0	-41.4		0	64	297	12	300	9440	1	-39.9						
500	5722	0	-15.5	15.1	0	49	281	6	500	5732	0	-14.9	12.3	0	55	306	6	500	5762	1	-14.0	14.1					
700	3102	0	0.5	13.6	0	47	296	5	700	3112	0	0.5	14.6	1	42	289	3	700	3129	1	1.1	7.5					
850	1521	0	7.6	7.9	1	28	302	3	850	1529	0	8.2	7.5	1	22	307	2	850	1540	1	10.0	4.9	5	41	338	3	
1012	* 69		14.1	2.9					1018	* 14		15.1	2.7					995	* 213		16.5	3.0					
SW PACIFIC - AUSTRALIA LAVERTON AERODROME 94821 3745S 14444E 0B																											
030	23854	2	-55.9		3	16	67	1	030	23867	7	-56.1				</											

SW PAC-AUSTRALIA

## UPPER AIR

APRIL 1989

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND					
PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	STEADINESS %	DIRECTION °	SPEED mps
mb	gpm								mb	gpm							mb	gpm								
SW PACIFIC - AUSTRALIA HOBART AIRPORT 94975 4250S 14730E OB 3																										
030	23856	2	-55.8		5	24	281	1	030	23850	5	-54.7		7	30	2	1	030	23852	7	-54.2		9	54	75	3
050	20634	2	-59.1		4	58	285	4	050	20642	2	-62.4		2	41	91	3	050	20630	4	-62.2		6	61	79	4
100	16318	2	-61.3		3	89	278	15	100	16462	1	-70.0		0	85	261	13	100	16460	0	-71.3		1	84	247	13
150	13787	1	-58.5		3	86	278	17	150	14019	1	-63.0		1	90	265	26	150	14033	0	-64.5		1	90	257	28
200	11969	1	-56.0		3	75	282	17	200	12215	0	-54.6		0	85	270	27	200	12237	0	-55.1		0	85	260	26
300	9337	1	-43.4		2	62	298	13	300	9524	0	-37.0		1	83	267	19	300	9548	0	-36.9		0	78	260	18
500	5699	1	-16.7	12.5	1	69	294	10	500	5800	0	-11.5	14.7	0	58	282	5	500	5813	0	-11.0	16.6	0	53	251	6
700	3088	1	-0.4	14.7	1	65	287	7	700	3141	0	4.3	15.1	0	14	33	1	700	3143	0	5.1	17.0	1	36	106	3
850	1516	1	5.7	4.8	0	50	298	5	850	1542	0	10.6	4.8	0	44	58	3	850	1541	0	10.7	4.0	0	51	87	5
1019 *	3	13.7	4.1						1018 *	46	22.4	5.1						1006 *	109	22.0	4.8					
SW PACIFIC - AUSTRALIA(ADDITIONAL IS.) MACQUARIE ISLAND 94998 5429S 15856E OB																										
030	23740	8	-56.0		9	95	264	15	030	20562	8	-65.9		3	73	66	6	030	23804	4	-54.6		4	19	19	1
050	20498	4	-56.4		5	94	271	15	050	16553	2	-81.9		0	55	22	5	050	20538	3	-54.8		3	49	288	1
100	16086	3	-56.0		3	95	271	21	100	14215	0	-68.1		0	31	23	3	100	16094	1	-53.4		1	74	264	4
150	13502	3	-54.8		3	92	272	25	200	12429	0	-53.6		0	8	134	1	150	13470	1	-52.1	12.0	1	80	266	7
200	11664	3	-55.2		3	90	273	28	300	9685	0	-30.5		0	9	8	1	200	11604	0	-51.4	14.0	0	79	266	10
300	9044	2	-46.8		2	79	272	28	500	5855	0	-4.9	9.6	0	26	357	2	300	8962	0	-47.4	10.6	0	72	267	13
500	5463	1	-21.7	9.5	2	80	270	23	700	3132	0	10.1	8.4	0	46	74	3	500	5431	0	-25.5	9.6	0	67	265	8
700	2902	1	-6.6	5.5	1	84	271	19	850	1493	0	17.1	3.0	0				700	2910	0	-10.8	10.2	0	64	264	5
850	1369	1	0.0	5.5	1	89	270	15	1009 *	3	26.5	3.3						850	1395	0	-3.6	3.8	0	53	263	4
1005 *	6	6.0	1.6						1004 *	0								1004 *	0	4.5	2.9					
SW PACIFIC - ISLANDS COCOS ISLAND AIRPORT 96996 1211S 09649E OB																										
SHIP SITE - OCEAN WEATHER STATIONS CHARLIE 99030 5245N 03530W OB 1																										

## AFRICA-MADAGASCAR

## UPPER AIR LATE REPORTS

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND														
PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	% STEADINESS	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	% STEADINESS	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	DEW POINT °C	MISSING DAYS	% STEADINESS	DIRECTION °	SPEED mps									
67083	DEC 1988	18485	04729E	OB 3	AFRICA - MADAGASCAR ANTANANARIVO/IVATO	40080	JAN 1989	3325N	03631E	OB 1	EUROPE - SYRIAN ARAB REPUBLIC DAMASCUS NEW INTL AIRPORT	67083	JAN 1989	18485	04729E	OB 3	AFRICA - MADAGASCAR ANTANANARIVO/IVATO	40080	JAN 1989	3325N	03631E	OB 1	AFRICA - MADAGASCAR ANTANANARIVO/IVATO	40080	JAN 1989	3325N	03631E	OB 1							
030	16526	9	-76.6						030	23713	3	-56.4					030	14219	1	-67.6															
050									050	20505	1	-60.6					050																		
100	14150	2	-68.1						100	16225	1	-61.5					100																		
150	12374	2	-55.6						150	13673	1	-54.5					150	12427	1	-53.0															
200	9659	2	-33.0	13.3	2	72	251	18	200	11798	1	-49.8					200	9678	1	-30.2	26.5														
300	5860	2	-6.6	11.6	2	64	274	8	300	9140	0	-44.4	15.9	0	85	272	27	300	5848	0	-5.5	11.5	0	33	42	5									
500	3158	1	8.2	6.3	1	43	272	4	500	5585	0	-23.3	16.6	0	63	286	9	500	3128	0	9.5	5.5	0	41	41	5									
700	1521	1	18.9	7.2	1	24	64	2	700	3038	0	-6.5	13.1	0	65	294	5	700	1485	0	19.4	6.0	0	56	63	5									
850	*1276	20.8	7.8						850	1500	0	0.8	5.3	0	43	287	2	850	*1276	21.7	7.6														
949	*	611							949	*	611	0.7	0.6																						
61998	FEB 1989	49215	07015E	OB 2	AFRICA - FRANCE (OCEAN ISLANDS) PORT-AUX-FRANCAIS(ILES KER.)	61998	MAR 1989	49215	07015E	OB 2	AFRICA - FRANCE (OCEAN ISLANDS) PORT-AUX-FRANCAIS(ILES KER.)	61998	MAR 1989	49215	07015E	OB 2	AFRICA - FRANCE (OCEAN ISLANDS) PORT-AUX-FRANCAIS(ILES KER.)	61998	MAR 1989	49215	07015E	OB 2	AFRICA - FRANCE (OCEAN ISLANDS) PORT-AUX-FRANCAIS(ILES KER.)	61998	MAR 1989	49215	07015E	OB 2	AFRICA - FRANCE (OCEAN ISLANDS) PORT-AUX-FRANCAIS(ILES KER.)	61998	MAR 1989	49215	07015E	OB 2	
030	24055	4	-47.5						030	23896	6	-52.4					030	23896	6	-52.4															
050	20710	1	-51.3						050	20613	4	-55.3					050	20613	4	-55.3															
100	16261	0	-55.4						100	16219	0	-57.6					100	16219	0	-57.6															
150	13673	0	-54.3						150	13651	0	-55.5					150	13651	0	-55.5															
200	11829	0	-53.8						200	11822	0	-56.1					200	11822	0	-56.1															
300	9178	0	-42.9						300	9191	0	-43.6					300	9191	0	-43.6															
500	5556	0	-18.7	11.3	0	83	261	18	500	5565	0	-17.9	13.7	0	83	263	20	500	5565	0	-17.9	13.7	0	83	263	20									
700	2970	0	-4.4	12.3	0	88	258	15	700	2974	0	-3.1	15.2	0	82	270	14	700	2974	0	-3.1	15.2	0	82	270	14									
850	1422	0	1.3	6.4	0	86	259	12	850	1417	0	2.5	7.2	0	79	272		850	1417	0	2.5	7.2	0	79	272										
1009	*	30	10.1	7.1					1008	*	30	10.4	5.0					1008	*	30	10.4	5.0													

ASIA-INDIA

## UPPER AIR CORRECTIONS

LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND			LEVEL		TEMPERATURE			VECTOR WIND					
PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	Dew Point °C	MISSING DAYS	% STEADINESS	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	Dew Point °C	MISSING DAYS	% STEADINESS	DIRECTION °	SPEED mps	PRESSURE mb	HEIGHT gpm	MISSING DAYS	MEAN °C	Dew Point °C	MISSING DAYS	% STEADINESS	DIRECTION °	SPEED mps
030									030									030								
050									050									050								
100									100									100								
150									150									150								
200									200									200								
300									300									300								
500									500									500								
700									700									700								
850									850									850								
* 3122									* 60									1400								
* 66																		*	16							
ASIA - INDIA CWC VISHAKHAPATNAM/WALTAIR 43150 JUN 1988 1742N 08318E OB								ASIA - INDIA GOA/PANJIM 43192 JUN 1988 1529N 07349E OB								ASIA - INDIA MADRAS/MINAMBAKKAM 43279 JUN 1988 1300N 08011E OB										
030								030								030										
050								050								050										
100								100								100										
150								150								150										
200								200								200										
300								300								300										
500								500								500										
700								700								700										
850								850								850										
* 31																	*	16								
ASIA - INDIA PANAMBUR 43285 JUN 1988 1257N 07450E OB								ASIA - INDIA PORT BLAIR 43333 JUN 1988 1140N 09243E OB								ASIA - INDIA MINICOY 43369 JUN 1988 0818N 07309E OB										
030	D	D	D	D	D	D	D	030								030										
050								050								050										
100								100								100										
150								150								150										
200								200								200										
300								300								300										
500								500								500										
700								700								700										
850								850								850										
* 31									1487								*	2								
ASIA - INDIA TRIVANDRUM 43371 JUN 1988 0829N 07657E OB								ASIA - INDIA JODHPUR 42339 OCT 1988 2618N 07301E OB																		
030	21009							030	20888							030										
050								050								050										
100								100								100										
150								150								150										
200								200	12411							200										
300								300								300										
500								500								500										
700								700								700										
850								850								850										
* 64									* 224																	

# STATION LIST RECENT DATA

47409	C	ABASHIRI	JAPAN	84752	C	AREQUIPA	PERU
03091	C	ABERDEEN/DYCE	U KINGDOM	22550	CT	ARHANGEL'SK	USSR
41112	C	ABHA	SAUDI ARABIA	85406	C	ARICA	CHILE
72266	C	ABILENE, TX.	USA	86330	C	ARTIGAS	URUGUAY
41216	C	ABU DHABI BATEEN AIRPORT	U ARAB EMIRATES	47407	C	ASAHIKAWA	JAPAN
41217	CT	ABU DHABI INTL AIRPORT	U ARAB EMIRATES	38880	CT	ASHABAD	USSR
62640	C	ABU HAMED	SUDAN	72315	C	ASHEVILLE/REG., NC	USA
76805	C	ACAPULCO, GRO.	MEXICO	63021	CT	ASMARA	ETHIOPIA
80427	C	ACARIGUA	VENEZUELA	62414	C	ASSWAN	EGYPT
17352	CT	ADANA	TURKEY	72791	C	ASTORIA/CLATSOP, OR.	USA
63450	CT	ADDIS ABABA	ETHIOPIA	34880	C	ASTRAHAN'	USSR
94672	CT	ADELAIDE AIRPORT	AUSTRALIA	86218	C	ASUNCION/AEROPUERTO	PARAGUAY
60620	C	ADRAR	ALGERIA	65376	C	ATAKPAME	TOGO
76644	C	AEROP. INTL MERIDA, YUC.	MEXICO	61421	C	ATAR	MAURITANIA
87582	C	AEROPARQUE	ARGENTINA	16716	C	ATHENS(HELLINIKON)	GREECE
17190	C	AFYON	TURKEY	16714	C	ATHINAI/OBSERVATORY	GREECE
61024	C	AGADEZ	NIGER	72219	C	ATLANTA/MUN., GA.	USA
60250	C	AGADIR	MOROCCO	72407	C	ATLANTIC CITY, NJ.	USA
61974	C	AGALEGA	MAURITIUS	91925	CT	ATUONA	FRENCH POLY.
42261	C	AGRA	INDIA	93119	C	AUCKLAND AIRPORT	N ZEALAND
42647	CT	AHMADABAD	INDIA	03322	T	AUGHTON	U KINGDOM
60560	C	AIN SEFRA	ALGERIA	72218	C	AUGUSTA/BUSH FIELD, GA.	USA
61499	C	AIOUN EL ATROUSS	MAURITANIA	72254	C	AUSTIN/ROBERT MUELLER., TX.	USA
07761	CT	AJACCIO	FRANCE	84673	C	AYACUCHO	PERU
31168	C	AJAN	USSR	87642	C	AZUL AERO	ARGENTINA
47582	CT	AKITA	JAPAN	08329	C	BADAJOZ	SPAIN
61437	C	AKJOUJT	MAURITANIA	83980	C	BAGE	BRAZIL
42933	C	AKOLA	INDIA	71727	C	BAGOTVILLE, QUE.	CANADA
72521	C	AKRON/AKRON-CANTON REG., OH.	USA	98328	C	BAGUIO	PHILIPPINES
04063	C	AKUREYRI	ICELAND	87750	C	BAHIA BLANCA AERO	ARGENTINA
48062	C	AKYAB	BURMA	41150	C	BAHRAIN MUHARRAQ	BAHRAIN
40420	C	AL AHSA	SAUDI ARABIA	71926	C	BAKER LAKE, N.W.T.	CANADA
40361	C	AL-JOUF	SAUDI ARABIA	35796	C	BALHAS	USSR
94802	CT	ALBANY AIRPORT	AUSTRALIA	72406	C	BALTIMORE/B-WASHINGTON, MD.	USA
72518	C	ALBANY/ALBANY CO., NY.	USA	61291	CT	BAMAKO/SENOU	MALI
06030	C	ALBORG	DENMARK & FAROE IS.	64660	C	BAMBARI	CENTRAL AFRICAN REP
72365	C	ALBUQUERQUE/INTL, NM.	USA	43295	C	BANGALORE	INDIA
31004	CT	ALDAN	USSR	48455	CT	BANGKOK	THAILAND
40007	C	ALEppo	SYRIAN ARAB REP	64650	C	BANGUI	CENTRAL AFRICAN REP
71082	C	ALERT, N.W.T.	CANADA	61701	C	BANJUL/YUNDUM	GAMBIA
61997	C	ALFRED FAURE (ILES CROZET)	FRANCE	82784	C	BARBALHA	BRAZIL
16520	C	ALGHERO	ITALY	80419	C	BARCELONA	VENEZUELA
08359	C	ALICANTE	SPAIN	08181	C	BARCELONA/AEROPUERTO	SPAIN
94326	CT	ALICE SPRINGS AIRPORT	AUSTRALIA	87765	C	BARILLOCHE AERO	ARGENTINA
64662	C	ALINDAO	CENTRAL AFRICAN REP	29838	C	BARNaul	USSR
42475	C	ALLAHABAD/BAMHRAULI	INDIA	80410	C	BARQUISIMETO	VENEZUELA
72517	C	ALLENTOWN/A.-BETHLEHEM-.PA.	USA	82571	C	BARRA DO CORDA	BRAZIL
36870	CT	ALMA-ATA	USSR	80091	C	BARRANCABERMEJA/YARIGUIES	COLOMBIA
08487	C	ALMERIA/AEROPUERTO	SPAIN	80028	C	BARRANQUILLA/ERNESTOCORTISSO	COLOMBIA
44277	C	ALTAI	MONGOLIA	83236	C	BARREREIRAS	BRAZIL
51076	C	ALTAY	CHINA	70026	CT	BARROW/W. POST W. ROGERS, AK.	USA
40270	C	AMMAN AIRPORT	JORDAN	98135	C	BASCO	PHILIPPINES
97240	C	AMPENAN/SELAPARANG	INDONESIA	89057	C	BASE ARTURO PRAT	CHILE
42071	C	AMRITSAR	INDIA	89059	C	BASE BERNARDO O'HIGGINS	CHILE
89009	C	AMUNSEN-SCOTT	USA	91557	CT	BAUERFIELD (EFATE)	VANUATU
25563	CT	ANADYR'	USSR	60571	CT	BECHAR	ALGERIA
70273	CT	ANCHORAGE/INTL, AK.	USA	72412	C	BECKLEY(RALEIGH CTY.MUN), VA.	USA
91568	C	ANEITYUM	VANUATU	54511	CT	BEIJING	CHINA
04360	CT	ANGMAGSSALIK	DENMARK	67297	C	BEIRA	MOZAMBIQUE
17130	CT	ANKARA/CENTRAL	TURKEY	60402	C	BEJAIA	ALGERIA
60360	C	ANNABA	ALGERIA	82191	C	BELEM	BRAZIL
70398	C	ANNETTE ISLAND, AK.	USA	82193	T	BELEM (AEROPORTO)	BRAZIL
84542	C	ANTA (HUARAZ)	PERU	03917	C	BELFAST/ALDERGROVE AIRPORT	U KINGDOM
67025	C	ANTALAH	MADAGASCAR	43198	C	BELGAUM/SAMBRA	INDIA
17300	C	ANTALYA	TURKEY	78583	C	BELIZE/INTL AIRPORT	BELIZE
67083	CT	ANTANANARIVO/IVATO	MADAGASCAR	03976	C	BELMULLET	IRELAND
85442	CT	ANTOFAGASTA	CHILE	83587	C	BELO HORIZONTE	BRAZIL
98232	C	APARRI	PHILIPPINES	82246	C	BELTERRA	BRAZIL
80084	C	APARTADO	COLOMBIA	40180	C	BEN-GURION INTL AIRPORT	ISRAEL
91762	C	APIA	SAMOA	60602	C	BENI ABBES	ALGERIA
83096	C	ARACAJU	BRAZIL	60518	C	BENI-SAF	ALGERIA
48462	C	ARANYAPRATHET	THAILAND	62053	C	BENINA	LIBYAN ARAB JAMAHIRI
40357	C	ARAR	SAUDI ARABIA	82410	C	BENJAMIN CONSTANT	BRAZIL
80099	C	ARAUCA/SANTIAGO PEREZ	COLOMBIA	13274	C	BEOGRAD	YUGOSLAVIA
83579	C	ARAXA	BRAZIL	64600	C	BERBERATI	CENTRAL AFRICAN REP
44288	C	ARBAIHER	MONGOLIA	01317	C	BERGEN/FLORIDA	NORWAY

# STATION LIST RECENT DATA

10384	CT	BERLIN-TEMPELHOF	GERMANY, FED REP	62366	C	CAIRO	EGYPT
40179	T	BET DAGAN	ISRAEL	84472	C	CAJAMARCA	PERU
70219	CT	BETHEL/BETHEL AIRPORT, AK.	USA	42807	C	CALCUTTA/ALIPORE	INDIA
68461	C	BETHLEHEM AIRPORT	SOUTH AFRICA	42809	T	CALCUTTA/DUM DUM	INDIA
42971	CT	BHUBANESWAR	INDIA	80259	C	CALI/PALMASECA	COLOMBIA
12295	C	BIALYSTOK	POLAND	71925	C	CAMBRIDGE BAY, N.W.T.	CANADA
71848	C	BIG TROUT LAKE, ONT.	CANADA	85315	C	CAMIPI	BOLIVIA
42165	C	BIKANER	INDIA	93944	CT	CAMPBELL ISLAND	N ZEALAND
72677	C	BILLINGS/LOGAN INTL, MT.	USA	83611	C	CAMPO GRANDE	BRAZIL
61017	C	BILMA	NIGER	83698	C	CAMPOS	BRAZIL
72515	C	BINGHAMTON/BROOME CO., NY.	USA	17112	C	CANAKKALE	TURKEY
96441	CT	BINTULU	MALAYSIA	84226	C	CANAR	ECUADOR
61401	C	BIR MOGHREIN	MAURITANIA	94926	C	CANBERRA AIRPORT	AUSTRALIA
03534	C	BIRMINGHAM/AIRPORT	U KINGDOM	72304	C	CAPE HATTERAS, NC.	USA
61075	C	BIRNI-N'KONNI	NIGER	68816	CT	CAPE TOWN (D.F. MALAN)	SOUTH AFRICA
60525	C	BISKRA	ALGERIA	80416	C	CARACAS/LA CARLOTA	VENEZUELA
72764	CT	BISMARCK/MUN., ND.	USA	80415	C	CARACAS/MAIQUETIA AEROP.INTL	VENEZUELA
61766	C	BISSAU (AEROPORT)	GUINEA-BISSAU	83592	C	CARATINGA	BRAZIL
15085	C	BISTRITA	ROMANIA	83498	C	CARAVELAS	BRAZIL
64510	C	BITAM	GABON	03715	C	CARDIFF-WALES AIRPORT	U KINGDOM
01028	CT	BJORNOYA	NORWAY	38687	C	CARDZOU	USSR
31510	CT	BLAGOVESCENSK	USSR	72712	C	CARIBOU/MUN., ME.	USA
68442	CT	BLOEMFONTEIN (J.B.M. HERTZOG)	SOUTH AFRICA	94300	C	CARNARVON AIRPORT	AUSTRALIA
74492	C	BLUE HILL OBS., MA.	USA	86580	C	CARRASCO	URUGUAY
65510	C	BOBO-DIOULASSO	BURKINA FASO	80022	C	CARTAGENA/CRESPO	COLOMBIA
01152	T	BODO	NORWAY	78325	C	CASA BLANCA/HABANA	CUBA
01152	C	BODO VI	NORWAY	60155	CT	CASABLANCA	MOROCCO
30554	C	BOGDARIN	USSR	89611	CT	CASEY	AUSTRALIA
80222	CT	BOGOTA/ELDORADO	COLOMBIA	72569	C	CASPER/NATRONA COUNTY I., WY.	USA
29282	C	BOGUCANY	USSR	78714	C	CATACAMAS	HONDURAS
65338	C	BOHICON	BENIN	87222	C	CATAMARCA AERO.	ARGENTINA
72681	C	BOISE/MUN., ID.	USA	83676	C	CATANDUVA	BRAZIL
61769	C	BOLAMA	GUINEA-BISSAU	87763	C	CATEDRAL 2000	ARGENTINA
83288	C	BOM JESUS DA LAPA	BRAZIL	81405	CT	CAYENNE/ROCHAMBEAU	FRENCH GUIANA
43057	C	BOMBAY/COLABA	INDIA	94653	C	CEDUNA AIRPORT	AUSTRALIA
43003	T	BOMBAY/SANTACRUZ	INDIA	89056	C	CENTRO MET.ANTARTICO"PDTE.	CHILE
31253	C	BOMNAK	USSR	89055	C	CENTRO MET.ANTARTICO"VICEC.	ARGENTINA
23884	C	BOR	USSR	87257	C	CERES	ARGENTINA
91930	C	BORA-BORA	FRENCH POLY.	84444	C	CHACHAPOYAS	PERU
07510	CT	BORDEAUX/MERIGNAC	FRANCE	40942	C	CHAKHCHARAN	AFGHANISTAN
60444	C	BORDJ BOU ARRERIDJ	ALGERIA	87320	C	CHAMICAL AERO	ARGENTINA
65516	C	BOROMO	BURKINA FASO	48480	C	CHANTHABURI	THAILAND
64610	C	BOSSANGOA	CENTRAL AFRICAN REP	85230	C	CHARANA	BOLIVIA
64605	C	BOSSEMBELE	CENTRAL AFRICAN REP	72414	C	CHARLESTON/KANAWHA, WV.	USA
72509	C	BOSTON/LOGAN INTL, MA.	USA	72208	C	CHARLESTON/MUN., SC.	USA
60515	C	BOU-SAADA	ALGERIA	94510	CT	CHARLEVILLE AIRPORT	AUSTRALIA
64601	C	BOUAR	CENTRAL AFRICAN REP	99030	T	CHARLIE	OCEAN WEATHER STATIO
61296	C	BOUGOUNI	MALI	72314	C	CHARLOTTE/DOUGLAS, NC.	USA
07255	C	BOURGES	FRANCE	93986	CT	CHATHAM ISLAND	N ZEALAND
03862	C	BOURNEMOUTH AIRPORT	U KINGDOM	71717	C	CHATHAM, N.B.	CANADA
61461	C	BOUTILIMIT	MAURITANIA	72324	C	CHATTANOOGA/LOVELL FIELD, TN.	USA
83377	C	BRASILIA	BRAZIL	11406	C	CHEB	CZECHOSLOVAKIA
83378	T	BRASILIA (AEROPORTO)	BRAZIL	56294	C	CHENGDU	CHINA
30309	C	BRATSK	USSR	87322	C	CHEPES	ARGENTINA
64450	C	BRAZZAVILLE/MAYA-MAYA	CONGO	07024	C	CHERBOURG	FRANCE
07110	CT	BREST/GUIPAVAS	FRANCE	42515	C	CHERRAPUNJI	INDIA
64655	C	BRIA	CENTRAL AFRICAN REP	76750	C	CHETUMAL, Q. ROO	MEXICO
16320	CT	BRINDISI	ITALY	72564	C	CHEYENNE, WY.	USA
94578	CT	BRISBANE AIRPORT	AUSTRALIA	41768	C	CHHOR	PAKISTAN
11723	C	BRNO/TURANY	CZECHOSLOVAKIA	48327	CT	CHIANG MAI	THAILAND
94203	CT	BROOME AIRPORT	AUSTRALIA	72530	C	CHICAGO/O'HARE, IL.	USA
72250	CT	BROWNSVILLE/INTL, TX.	USA	47971	CT	CHICHIJIMA	JAPAN
80094	C	BUCARAMANGA/PALONEGRO	COLOMBIA	84452	C	CHICLAYO	PERU
15420	T	BUCURESTI/IMH	ROMANIA	84531	C	CHIMBOTE	PERU
12843	CT	BUDAPEST/LORINC	HUNGARY	60425	C	CHLEF	ALGERIA
12840	C	BUDAPEST/METEOROLOGIA	HUNGARY	44259	C	CHOIBALSAN	MONGOLIA
80251	C	BUENAVENTURA/COLPUERTOS	COLOMBIA	78724	C	CHOLUTECA	HONDURAS
87585	C	BUENOS AIRES (OBS. CENTRAL)	ARGENTINA	47648	C	CHOSHI	JAPAN
72528	C	BUFFALO/GREATER BUFFALO, NY.	USA	93780	C	CHRISTCHURCH AIRPORT	N ZEALAND
67964	CT	BULAWAYO (GOETZ OBSY.)	ZIMBABWE	48517	C	CHUMPHON	THAILAND
44239	C	BULGAN	MONGOLIA	47014	C	CHUNGGANG	DPR KOREA
15655	C	BURGAS	BULGARIA	71913	C	CHURCHILL, MAN.	CANADA
72617	C	BURLINGTON/INTL, VT.	USA	38262	C	CIMBAJ	USSR
17116	C	BURSA	TURKEY	72421	C	CINCINNATI/GREATER CIN., OH.	USA
16560	CT	CAGLIARI/ELMAS	ITALY	30758	CT	CITA	USSR
94287	C	CAIRNS AIRPORT	AUSTRALIA	80444	C	CIUDAD BOLIVAR	VENZUELA

# STATION LIST RECENT DATA

15120	CT	CLUJ-NAPOCA	ROMANIA	61666	C	DIOURBEL	SENEGAL
71090	C	CLYDE, N.W.T.	CANADA	63471	C	DIRE DAWA	ETHIOPIA
82425	C	COARI	BRAZIL	17280	CT	DIYARBAKIR	TURKEY
76741	C	COATZACOALCOS, VER.	MEXICO	64453	C	DJAMBALA	CONGO
94711	CT	COBAR	AUSTRALIA	60670	C	DJANET	ALGERIA
85041	C	COBIJA	BOLIVIA	60535	C	DJELFA	ALGERIA
85223	C	COCHABAMBA	BOLIVIA	63125	C	DJIBOUTI	DJIBOUTI
43353	T	COCHIN/WILLINGDON	INDIA	72451	C	DODGE CITY/MUN., KS.	USA
64504	C	COCOBEACH	GABON	63862	C	DODOMA	U REP TANZANIA
96996	CT	COCOS ISLAND AIRPORT	ISLANDS	41170	CT	DOHA INTERNATIONAL AIRPORT	QATAR
94791	C	COFFS HARBOUR AIRPORT	AUSTRALIA	87648	C	DOLORES AERO	ARGENTINA
21946	C	COKURDAH	USSR	65501	C	DORI	BURKINA FASO
70316	CT	COLD BAY, AK.	USA	64910	C	DOUALA OBS.	REP CAMEROON
43466	C	COLOMBO	SRI LANKA	09488	C	DRESDEN-KLOTZSCHE	GERMAN DEM REP
86560	C	COLONIA	URUGUAY	03969	C	DUBLIN AIRPORT	IRELAND
72310	C	COLUMBIA, SC.	USA	52836	C	DULAN	CHINA
72445	C	COLUMBIA/REGIONAL, MO.	USA	72745	C	DULUTH/INTL, MN.	USA
72428	C	COLUMBUS/PORT COLUMBUS, OH.	USA	42599	C	DUMKA	INDIA
87860	C	COMODORO RIVADAVIA AERO	ARGENTINA	68588	CT	DURBAN (LOUIS BOTHA)	SOUTH AFRICA
82861	C	CONCEICAO DO ARAGUAIA	BRAZIL	42731	C	DWARKA	INDIA
85196	C	CONCEPCION	BOLIVIA	67005	C	OZAOUZI/PAMANZI (MAYOTTE)	COMOROS
86134	C	CONCEPCION	PARAGUAY	24143	C	ODZARDZAN	USSR
72605	C	CONCORD/MUN., NH.	USA	68858	C	EAST LONDON	SOUTH AFRICA
87395	C	CONCORDIA AERO	ARGENTINA	94907	C	EAST SALE AERODROME	AUSTRALIA
72458	C	CONCORDIA/BLOSSER MUN., KS.	USA	03160	C	EDINBURGH AIRPORT	U KINGDOM
15480	T	CONSTANTA	ROMANIA	17050	C	EDIRNE	TURKEY
60419	C	CONSTANTINE	ALGERIA	71879	C	EDMONTON MUNICIPAL, ALTA.	CANADA
71938	C	COPPERMINE, N.W.T.	CANADA	04220	CT	EGEDESMINDE	DENMARK
71915	C	CORAL HARBOUR, N.W.T.	CANADA	40199	C	EILAT	ISRAEL
87344	C	CORDOBA AERO	ARGENTINA	60590	C	EL GOLEA	ALGERIA
03955	C	CORK AIRPORT	IRELAND	60540	C	EL KHEITER	ALGERIA
80403	C	CORO	VENEZUELA	60559	C	EL QUED	ALGERIA
72251	C	CORPUS CHRISTI/INTL, TX.	USA	72270	C	EL PASO/INTL, TX.	USA
87166	C	CORRIENTES AERO.	ARGENTINA	84179	C	EL PUYO	ECUADOR
83552	C	CORUMBA	BRAZIL	60367	C	EL-KALA	ALGERIA
65344	C	COTONOU	BENIN	60550	C	ELBAYADH	ALGERIA
83512	C	COXIM	BRAZIL	12160	C	ELBLAG	POLAND
03774	T	CRAWLEY	U KINGDOM	63686	C	ELDORET	KENYA
82704	C	CRUZEIRO DO SUL	BRAZIL	72486	C	ELY/YELLAND, NV.	USA
80097	C	CUCUTA/CAMILO DAZA	COLOMBIA	10203	C	EMDEN-HAFEN	GERMANY, FED REP
83361	C	CUIABA	BRAZIL	86297	C	ENCARNACION	PARAGUAY
80420	C	CUMANA	VENEZUELA	29263	C	ENISEJSK	USSR
83842	C	CURITIBA	BRAZIL	24817	C	ERBOGACEN	USSR
84686	C	CUZCO	PERU	09554	C	ERFURT-BINDERSLEBEN	GERMAN DEM REP
43150	T	CWC VISHAKHAPATNAM/WALTAIR	INDIA	17092	C	ERZINCAN	TURKEY
48855	T	DA NANG	VIET NAM	03162	C	ESKDALEMUIR	U KINGDOM
98325	C	DAGUPAN	PHILIPPINES	94638	CT	ESPERANCE	AUSTRALIA
61641	CT	DAKAR/YOFF	SENEGAL	88963	C	ESPERANZA B.E.	ARGENTINA
62432	C	DAKHLA	EGYPT	87803	C	ESQUEL AERO	ARGENTINA
41712	C	DAL BANDIN	PAKISTAN	24105	C	ESSEJ	USSR
44373	C	DALANZADGAD	MONGOLIA	10410	CT	ESSEN	GERMANY, FED REP
72259	C	DALLAS-FORT WORTH/FORT., TX.	USA	72594	C	EUREKA, CA.	USA
42587	C	DALTONGANJ	INDIA	71917	C	EUREKA, N.W.T.	CANADA
40080	CT	DAMASCUS NEW INTL AIRPORT	SYRIAN ARAB REP	72432	C	EVANSVILLE/REG., IN.	USA
04320	CT	DANMARKSHAVN	DENMARK	87576	C	EZEIZA AERO	ARGENTINA
65351	C	DAPAON	TOGO	65507	C	FADA N'GOURMA	BURKINA FASO
63894	C	DAR ES SALAAM AIRPORT	U REP TANZANIA	70261	C	FAIRBANKS/INTL, AK.	USA
60390	CT	DAR-EL-BEIDA	ALGERIA	16191	C	FALCONARA	ITALY
42391	C	DARBHANGA	INDIA	89063	C	FARADAY (ARGENTINE ISLAND)	U KINGDOM
61891	C	DARU	SIERRA LEONE	72753	C	FARGO/HECTOR FIELD, ND.	USA
94120	CT	DARWIN AIRPORT	AUSTRALIA	82400	T	FERNANDO DE NORONHA	BRAZIL
89571	C	DAVIS	AUSTRALIA	11155	C	FEUERKOGEL	AUSTRIA
72429	C	DAYTON/JAMES M. COX DAY., OH.	USA	09578	C	FICHTELBERG	GERMAN DEM REP
06260	CT	DE BILT	NETHERLANDS	72637	C	FLINT/BISHOP, MI.	USA
12882	C	DEBRECEN	HUNGARY	83897	C	FLORIANOPOLIS	BRAZIL
40045	C	DEIR EZZOR	SYRIAN ARAB REP	82212	C	FONTE BOA	BRAZIL
72469	C	DENVER/STAPLETON INTL, CO.	USA	87162	C	FORMOSA AERO	ARGENTINA
41624	C	DERA ISMAIL KHAN	PAKISTAN	94646	CT	FORREST AIRPORT	AUSTRALIA
72546	C	DES MOINES/MUN., IA.	USA	71945	C	FORT NELSON, B.C.	CANADA
72537	C	DETROIT/METROPOLITAN, MI.	USA	38001	C	FORT SEVCENKO	USSR
40416	CT	DHAHRAN	SAUDI ARABIA	71934	C	FORT SMITH, N.W.T.	CANADA
41923	T	DHAKA	BANGLADESH	72344	C	FORT SMITH/MUN., AR.	USA
42314	C	DIBRUGARH/MOHANBARI	INDIA	72533	C	FORT WAYNE/MUN., BAER FL., IN.	USA
61967	T	DIEGO GARCIA	USA	82397	CT	FORTALEZA	BRAZIL
67009	C	DIEGO-SUAREZ	MADAGASCAR	72389	C	FRESNO/AIR TERM., CA.	USA
07280	C	DIJON	FRANCE	71909	C	FROBISHER BAY, N.W.T.	CANADA

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47807	CT	FUKUOKA	JAPAN	43497	C	HAMBANTOTA	SRI LANKA
91643	CT	FUNAFUTI	N ZEALAND	10147	C	HAMBURG-FUHLSBUETTEL	GERMANY, FED REP
08522	CT	FUNCHAL	MADEIRA	52203	C	HAMI	CHINA
83746	T	GALEAO	BRAZIL	10338	CT	HANNOVER	GERMANY, FED REP
72242	C	GALVESTON, TX.	USA	23933	CT	HANTY-MANSIJSK	USSR
71803	C	GANDER INTL AIRPORT, NFLD.	CANADA	91944	CT	HAO	FRENCH POLY.
57993	C	GANZHOU	CHINA	02196	C	HAPARANDA	SWEDEN
61226	C	GAO	MALI	34300	CT	HAR'KOV	USSR
65522	C	GAOUA	BURKINA FASO	67774	T	HARARE (BELVEDERE)	ZIMBABWE
63723	C	GARISSA	KENYA	67775	C	HARARE (KUTSAGA)	ZIMBABWE
64860	C	GAROUA	REP CAMEROON	02361	C	HARNOSAND	SWEDEN
40405	C	GASSIM	SAUDI ARABIA	72508	C	HARTFORD/BRADLEY INTL, CT.	USA
42410	CT	GAUHATI	INDIA	60581	C	HASSI-MESSAOUD	ALGERIA
80241	CT	GAVIOTAS	COLOMBIA	20891	CT	HATANGA	USSR
61099	C	GAYA	NIGER	78988	CT	HATO AIRPORT,CURACAO	CURACAO BONAIRE
10628	C	GEISENHEIM	GERMANY, FED REP	72772	C	HELENA/COUNTY-CITY, MT.	USA
89034	C	GENERAL BELGRANO II B.E.	ARGENTINA	02974	C	HELSINKI-VANTAA	FINLAND
87532	C	GENERAL PICO AERO	ARGENTINA	62378	C	HELWAN	EGYPT
89066	C	GENERAL SAN MARTIN B.E.	ARGENTINA	16754	CT	HERAKLION	GREECE
06700	C	GENEVE-COINTRIN	SWITZ. LIECH.	91945	C	HEREHERETUE	FRENCH POLY.
68828	C	GEORGE AIRPORT	SOUTH AFRICA	91753	C	HIHIFO (ILE WALLIS)	N CALEDONIA
94403	C	GERALDTON AIRPORT	AUSTRALIA	91285	CT	HILO/GEN. LYMAN, HAWAII,	USA
68024	C	GHANZI	BOTSWANA	47765	C	HIROSHIMA	JAPAN
60566	C	GHARDAIA	ALGERIA	04082	C	HJARDARNES	ICELAND
08495	CT	GIBRALTAR	GIBRALTAR	94975	CT	HOBART AIRPORT	AUSTRALIA
94461	CT	GILES	AUSTRALIA	93614	C	HOKITIKA AERODROME	N ZEALAND
93291	C	GISBORNE AERODROME	N ZEALAND	91517	T	HONIARA	SOLOMON ISLANDS
41140	C	GIZAN	SAUDI ARABIA	91520	C	HONIARA/HENDERSON	SOLOMON ISLANDS
94380	C	GLADSTONE	AUSTRALIA	91182	C	HONOLULU, OAHU, HAWAII	USA
72768	C	GLASGOW/INTL, MT.	USA	08506	C	HORTA (ACORES)	PORTUGAL
20292	CT	GMO IM.F.K. FEDOROVA	USSR	23219	C	HOSEDA-HARD	USSR
43192	CT	GOA/PANJIM	INDIA	51828	C	HOTAN	CHINA
87880	C	GOBERNADOR GREGORES AERO	ARGENTINA	72243	C	HOUSTON/INTERCONTINENTAL, TX.	USA
04250	C	GOTHAB	DENMARK	78806	T	HOWARD AFB	PANAMA
09499	C	GOERLITZ	GERMAN DEM REP	84564	C	HUANUCO	PERU
63331	C	GONDAR	ETHIOPIA	72425	C	HUNTINGTON/TRI-STATE, WV.	USA
72465	C	GOODLAND/RENNER FIELD/, KS.	USA	72654	C	HURON/HURON REGIONAL, SD.	USA
71816	C	GOOSE, NFLD.	CANADA	41765	C	HYDERABAD	PAKISTAN
02527	T	GOTEBOORG/LANDVETTER	SWEDEN	43128	CT	HYDERABAD AIRPORT	INDIA
02512	C	GOTEBOORG/SAVE	SWEDEN	47016	C	HYESAN	DPR KOREA
68906	C	GOUGH ISLAND	SOUTH AFRICA	15090	C	IASI	ROMANIA
61045	C	GOURE	NIGER	80214	C	IBAGUE/PERALES	COLOMBIA
94150	CT	GOVE AIRPORT	AUSTRALIA	32411	C	ICA	USSR
72476	C	GRAND JUNCTION/WALKER F., CO.	USA	87097	C	IGUAZU AERO	ARGENTINA
72635	C	GRAND RAPIDS/KENT CO., MI.	USA	61972	C	ILE EUROPA	FRANCE
11240	C	GRAZ-THALERHOF-FLUGHAFEN	AUSTRIA	61970	C	ILE JUAN DE NOVA	FRANCE
72775	CT	GREAT FALLS/INTL, MT.	USA	61968	C	ILES GLORIEUSES	FRANCE
72645	C	GREEN BAY/A.-STRAUBEL, WI.	USA	25248	C	ILLIRNEJ	USSR
72317	C	GREENSBORO/G.-HIGH PT., NC.	USA	60640	C	ILLIZI	ALGERIA
72312	C	GREENVILLE/G-SPARTANBURG, SC.	USA	98637	C	ILOILO	PHILIPPINES
09184	CT	GREIFSWALD	GERMAN DEM REP	31416	C	IM POLINY OSIPENKO	USSR
76612	C	GUADALAJARA, JAL.	MEXICO	60611	C	IN AMENAS	ALGERIA
87497	C	GUALEGUAYCHU AERO	ARGENTINA	60630	C	IN SALAH	ALGERIA
78701	C	GUANAJA	HONDURAS	47112	C	INCHON	REP KOREA
76577	C	GUANAJUATO, GTO.	MEXICO	72438	C	INDIANAPOLIS/I.-MUN/WEI., IN.	USA
80428	C	GUANARE	VENEZUELA	42754	C	INDORE	INDIA
59287	CT	GUANGZHOU	CHINA	67323	C	INHAMBANE	MOZAMBIQUE
84203	C	GUAYAQUIL/SIMON BOLIVAR	ECUADOR	11120	C	INNSBRUCK-FLUGHAFEN	AUSTRIA
80423	C	GUIRIA	VENEZUELA	72747	CT	INT. FALLS/FALLS INTL, MN.	USA
02128	C	GUNNARN	SWEDEN	71907	C	INUKJUAK, QUE.	CANADA
35700	CT	GUR'EV	USSR	71957	C	INUVIK, N.W.T.	CANADA
40360	C	GURIAT	SAUDI ARABIA	93844	CT	INVERCARGILL AERODROME	N ZEALAND
40250	C	H-4 'IRWAISHED'	JORDAN	80370	C	IPIALES/SAN LUIS	COLOMBIA
48820	CT	HA NOI	VIET NAM	84377	C	IQUITOS	PERU
31735	CT	HABAROVSK	USSR	83881	C	IRAI	BRAZIL
47678	C	HACHI JOIMA	JAPAN	83836	C	IRATI	BRAZIL
47678	T	HACHI JOIMA/OMURE	JAPAN	30710	C	IRKUTSK	USSR
47069	C	HAEJU	DPR KOREA	47918	CT	ISHIGAKIJIMA	JAPAN
40373	C	HAFR AL-BATIN	SAUDI ARABIA	85469	C	ISLA DE PASCUA	CHILE
59758	C	HAIKOU	CHINA	85585	C	ISLA ROBINSON CRUSOE	CHILE
40394	CT	HAIL	SAUDI ARABIA	88968	C	ISLAS ORCADAS D.N. (OBS.)	ARGENTINA
50527	T	HAILAR	CHINA	17240	CT	ISPARTA	TURKEY
71081	C	HALL BEACH, N.W.T.	CANADA	17062	CT	ISTANBUL/GOZTEPE	TURKEY
89022	T	HALLEY	U KINGDOM	82445	C	ITAITUBA	BRAZIL
94212	C	HALLS CREEK AIRPORT	AUSTRALIA	17220	C	IZMIR	TURKEY
40030	C	HAMA	SYRIAN ARAB REP	84088	C	IZOBAMBA-SANTA CATALINA	ECUADOR

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47800	C	IZUHARA	JAPAN	02801	C	KILPISJARVI	FINLAND
82640	C	JACAREACANGA	BRAZIL	68438	C	KIMBERLEY	SOUTH AFRICA
87305	C	JACHAL	ARGENTINA	47025	C	KIMCHAEK	DPR KOREA
72235	C	JACKSON/ALLEN C. THOMP., MS.	USA	40437	CT	KING KHALED INTL AIRPORT	SAUDI ARABIA
72206	C	JACKSONVILLE/INTL, FL.	USA	70326	C	KING SALMON, AK.	USA
41715	C	JACOBABAD	PAKISTAN	45004	T	KING'S PARK	HONG KONG
83186	C	JACOBINA	BRAZIL	78397	CT	KINGSTON/NORMAN MANLEY	JAMAICA
43041	C	JAGDALPUR	INDIA	64210	C	KINSHASA/N'DJILI	ZAIRE
24959	CT	JAKUTSK	USSR	30230	CT	KIRENSK	USSR
01001	CT	JAN MAYEN	NORWAY	27196	C	KIROV	USSR
68368	C	JAN SMUTS	SOUTH AFRICA	61270	C	KITA	MALI
41024	CT	JEDDAH(KING ABDUL AZIZ IAP)	SAUDI ARABIA	11231	C	KLAGENFURT-FLUGHAFEN	AUSTRIA
40184	C	JERUSALEM	ISRAEL	72326	C	KNOXVILLE/MUN., TN.	USA
41598	C	JHELEM	PAKISTAN	06181	T	KOBENHAVN/JAEGERSBORG	DENMARK & FAROE IS.
60351	C	JIJEL	ALGERIA	06186	C	KOBENHAVN/LANDBOHOJSKOLEN	DENMARK & FAROE IS.
63402	C	JIMMA	ETHIOPIA	47893	C	KOCHI	JAPAN
52533	C	JIUQUAN	CHINA	61698	C	KOLDA	SENEGAL
41756	C	JIWANI	PAKISTAN	29231	CT	KOLPASEV	USSR
42339	CT	JODHPUR	INDIA	10929	C	KONSTANZ	GERMANY, FED REP
02929	C	JOENSUU	FINLAND	25954	CT	KORF	USSR
02963	CT	JKOKIOINEN	FINLAND	91408	C	KOROR, PALAU IS.	USA
02550	C	JONKOPING FLYGPLATS	SWEDEN	42452	C	KOTA AERODROME	INDIA
78762	C	JUAN SANTAMARIA	COSTA RICA	48615	CT	KOTA BHARU	MALAYSIA
84474	C	JUANJUI	PERU	96471	CT	KOTA KINABALU	MALAYSIA
83692	C	JUIZ DE FORA	BRAZIL	70133	CT	KOTZEBUE, RALPH WIEN, AK.	USA
87046	C	JUJUY AERO	ARGENTINA	91577	C	KOUMAC (NLLE-CALEDONIE)	N CALEDONIA
84735	C	JULIACA	PERU	61293	C	KOUTIALA	MALI
78866	CT	JULIANA AIRPORT, ST. MAARTEN	ST. MAARTEN, ST. EUST.	43314	C	KOZHIKODE	INDIA
87548	C	JUNIN AERO	ARGENTINA	29574	CT	KRASNOJARSK	USSR
32150	CT	JUZNO-SAHALINSK	USSR	38507	C	KRASNODVOSK	USSR
02935	CT	JYVASKYLA	FINLAND	64971	C	KRIBI	REP CAMEROON
61886	C	KABALA	SIERRA LEONE	48648	T	KUALA LUMPUR/PETALING JAYA	MALAYSIA
40948	CT	KABUL AIRPORT	AFGHANISTAN	48647	C	KUALA LUMPUR/SUBANG	MALAYSIA
67663	C	KABWE	ZAMBIA	48657	CT	KUANTAN	MALAYSIA
62810	C	KADUGLI	SUDAN	96413	CT	KUCHING	MALAYSIA
47827	C	KAGOSHIMA	JAPAN	62271	C	KUFRA	LIBYAN ARAB JAMAHIRI
47827	T	KAGOSHIMA/YOSHINO	JAPAN	56778	CT	KUNMING	CHINA
93012	CT	KAITAIA	N ZEALAND	28952	CT	KUSTANAJ	USSR
02897	C	KAJAANI	FINLAND	71906	C	KUUJJUAQ, QUE.	CANADA
30469	C	KALAKAN	USSR	02869	C	KUUSAMO	FINLAND
16726	C	KALAMATA	GREECE	40582	CT	KUWAIT INTL AIRPORT	KUWAIT
94637	CT	KALGOORLIE AIRPORT	AUSTRALIA	91366	C	KWAJALEIN/BUCH. MARSHALL IS.	USA
25744	C	KAMENSKOE	USSR	33393	CT	L'VOV	USSR
40001	C	KAMISHLI	SYRIAN ARAB REP	78705	C	LA CEIBA (AIRPORT)	HONDURAS
67586	C	KAMUZU INTL.	MALAWI	08001	CT	LA CORUNA	SPAIN
47605	C	KANAZAWA	JAPAN	78708	C	LA MESA (SAN PEDRO SULA)	HONDURAS
65306	C	KANDI	BENIN	80405	C	LA ORCHILA	VENEZUELA
47105	C	KANGNUNG	REP KOREA	85201	C	LA PAZ/ALTO	BOLIVIA
22165	C	KANIN NOS	USSR	87007	C	LA QUIACA OBSERVATORIO	ARGENTINA
72446	C	KANSAS CITY, INTL, MO.	USA	87217	C	LA RIOJA AERO.	ARGENTINA
61679	C	KAOLACK	SENEGAL	85488	C	LA SERENA	CHILE
04340	C	KAP TOBIN	DENMARK	87534	C	LABOULAYE	ARGENTINA
71831	C	KAPUSKASING, ONT.	CANADA	82723	C	LABREA	BRAZIL
41780	CT	KARACHI AIRPORT	PAKISTAN	68476	C	LADYSMITH	SOUTH AFRICA
35394	CT	KARAGANDA	USSR	94027	C	LAE M.O.	PAPUA N GUINEA
02080	C	KARESUANDO	SWEDEN	60545	C	LAGHOUAT	ALGERIA
02418	C	KARLSTAD FLYGPLATS	SWEDEN	87903	C	LAGO ARGENTINO AERO	ARGENTINA
67475	C	KASAMA	ZAMBIA	41640	C	LAHORE CITY	PAKISTAN
51709	C	KASHI	CHINA	72240	C	LAKE CHARLES/MUN., LA.	USA
62730	C	KASSALA	SUDAN	64551	C	LAMBARENE	GABON
10438	C	KASSEL	GERMANY, FED REP	72576	C	LANDER/HUNT, WY.	USA
17074	C	KASTAMONU	TURKEY	52889	CT	LANZHOU	CHINA
26629	CT	KAUNAS	USSR	98223	C	LAOAG	PHILIPPINES
61257	C	KAYES	MALI	02958	C	LAPPEENRANTA	FINLAND
27595	CT	KAZAN'	USSR	16648	C	LARISSA	GREECE
61699	C	KEDOUGOU	SENEGAL	87078	C	LAS LOMITAS	ARGENTINA
04018	CT	KEFLAVIK	ICELAND	72386	C	LAS VEGAS/MCCARRAN, NV.	USA
61285	C	KENIEBA	MALI	40022	C	LATTAKIA	SYRIAN ARAB REP
16641	C	KERKYRA	GREECE	94865	CT	LAVERTON AERODROME	AUSTRALIA
02805	C	KEVO	FINLAND	78925	C	LE LAMENTIN	MARTINIQUE
72201	C	KEY WEST/INTL, FL.	USA	78897	CT	LE RAIZET/GUADELOUPE	ST. MARTIN, ST. BARTH.
41114	CT	KHAMIS MUSHAIT	SAUDI ARABIA	94302	C	LEARMONTH AIRPORT	AUSTRALIA
62721	C	KHARTOUM	SUDAN	12120	CT	LEBA	POLAND
33345	CT	KIEV	USSR	03257	C	LEEMING	U KINGDOM
61498	C	KIFFA	MAURITANIA	98444	C	LEGASPI	PHILIPPINES
64387	C	KIGALI	RWANDA	12374	T	LEGIONOWO	POLAND

# STATION LIST RECENT DATA

09469	C	LEIPZIG-SCHKEUDITZ	GERMAN DEM REP	43413	C	MANNAR	SRI LANKA
83242	C	LENCOIS	BRAZIL	76654	C	MANZANILLO, COL.	MEXICO
26063	CT	LENINGRAD (TOWN/VILLE)	USSR	67341	C	MAPUTO/MAVALANE	MOZAMBIQUE
03005	CT	LERWICK	U KINGDOM	87774	C	MAQUINCHAO	ARGENTINA
71874	C	LETHBRIDGE, ALTA.	CANADA	87692	C	MAR DEL PLATA AERO	ARGENTINA
80398	CT	LETICIA/VASQUEZ COBO	COLOMBIA	82562	C	MARABA	BRAZIL
72422	C	LEXINGTON/BLUE GRASS, KY.	USA	80407	C	MARACAIBO-LA CHINITA	VENEZUELA
55591	CT	LHASA	CHINA	80413	C	MARACAY - B.A. SUCRE	VENEZUELA
64500	C	LIBREVILLE	GABON	61080	C	MARADI	NIGER
67217	C	LICHINGA	MOZAMBIQUE	87467	C	MARCOS JUAREZ AERO	ARGENTINA
91165	CT	LIHUE, KAUAI, HAWAII	USA	16325	C	MARINA DI GINOSA	ITALY
84628	C	LIMA-CALLAO/AEROP. INTL	PERU	68994	CT	MARION ISLAND	SOUTH AFRICA
07434	C	LIMOGES	FRANCE	86068	C	MARISCAL ESTIGARRIBIA	PARAGUAY
09393	CT	LINDENBERG	GERMAN DEM REP	64851	C	MAROUA-SALAK	REP CAMEROON
61627	C	LINGUERE	SENEGAL	72743	C	MARQUETTE, MI.	USA
08535	C	LISBOA	PORTUGAL	60230	C	MARRAKECH	MOROCCO
08579	T	LISBOA/GAGO COUTINHO	PORTUGAL	07650	C	MARSEILLE/MARIGNANE	FRANCE
67743	C	LIVINGSTONE	ZAMBIA	61996	CT	MARTIN DE VIVIES(ILE AMST.)	FRANCE
13015	C	LJUBLJANA/BEZIGRAD	YUGOSLAVIA	41288	C	MASIRAH	OMAN
84270	C	LOJA/LA ARGELIA	ECUADOR	61630	C	MATAM	SENEGAL
15511	C	LOM	BULGARIA	47618	C	MATSUMOTO	JAPAN
65387	C	LOME	TOGO	80435	C	MATURIN	VENEZUELA
03776	C	LONDON/GATWICK AIRPORT	U KINGDOM	89564	C	MAHSON	AUSTRALIA
83766	C	LONDrina	BRAZIL	54503	C	MAYUMBA	GABON
94346	C	LONGREACH AIRPORT	AUSTRALIA	40911	C	MAZAR-I-SHARIF	AFGHANISTAN
72247	T	LONGVIEW, TX.	USA	70231	C	MCGRATH, AK.	USA
94995	CT	LORD HOWE ISLAND	AUSTRALIA	89664	C	MCMURDO	USA
72295	C	LOS ANGELES/INTL, CA.	USA	60549	C	MECHERIA	ALGERIA
72423	C	LOUISVILLE/STANDIFORD, KY.	USA	72597	CT	MEDFORD/MEDFORD-JACKSON, OR.	USA
48930	C	LUANG-PRABANG	LAO PDR	94430	C	MEEKATHARRA AIRPORT	AUSTRALIA
72267	C	LUBBOCK/LUBBOCK INTL, TX.	USA	09548	CT	MEININGEN	GERMAN DEM REP
42369	T	LUCKNOW/AMAUSI	INDIA	64545	C	MEKAMBO	GABON
06770	C	LUGANO	SWITZ. LIECH.	60150	C	MEKNES	MOROCCO
61856	C	LUNGI	SIERRA LEONE	86440	C	MELO	URUGUAY
16597	C	LUGA	MALTA	87418	C	MENDOZA AERO	ARGENTINA
06590	C	LUXEMBOURG/LUXEMBOURG	LUXEMBOURG	80425	C	MENE GRANDE	VENEZUELA
07480	C	LYON/BRON	FRANCE	56985	C	MENGZI	CHINA
07481	T	LYON/SATOLAS	FRANCE	08314	C	MENORCA/MAHON	SPAIN
60467	C	M'SILA	ALGERIA	86490	C	MERCEDES	URUGUAY
40310	C	MA'AN	JORDAN	80438	C	MERIDA	VENEZUELA
45011	C	MACAO	MACAU	72234	C	MERIDIAN/KEY, MS.	USA
82098	C	MACAPA	BRAZIL	62306	C	MERSA MATRUH	EGYPT
43185	C	MACHILIPATNAM (FRANCHPET)	INDIA	16420	C	MESSINA	ITALY
94367	C	MACKAY	AUSTRALIA	72202	C	MIAMI, FL.	USA
72217	C	MACON/LEWIS B. WILSON, GA.	USA	72265	C	MIDLAND/MIDLAND REG., TX.	USA
94998	CT	MACQUARIE ISLAND	AUSTRALIA	91066	T	MIDWAY ISLAND	USA
98646	C	MACTAN	PHILIPPINES	84202	C	MILAGRO	ECUADOR
94014	C	MADANG M.O.	PAPUA N GUINEA	16080	T	MILANO/LINATE	ITALY
40430	CT	MADINAH	SAUDI ARABIA	94693	C	MILDURA AIRPORT	AUSTRALIA
72641	C	MADISON/DANE COUNTY REG., WI.	USA	60430	C	MILIANA	ALGERIA
43279	CT	MADRAS/MINAMBAKKAM	INDIA	72640	C	MILWAUKEE/GEN. MITCHELL, WI.	USA
08222	C	MADRID	SPAIN	47945	CT	MINAMIDAITOJIMA	JAPAN
08221	T	MADRID/BARAJAS	SPAIN	47991	CT	MINAMITORISHIMA	JAPAN
47624	C	MAEBASHI	JAPAN	43369	CT	MINICOY	INDIA
40265	T	MAFRAQ	JORDAN	72658	C	MINNEAPOLIS/ST. PAUL INTL, MN.	USA
61091	C	MAGARIA	NIGER	26850	CT	MINSK	USSR
85114	C	MAGDALENA	BOLIVIA	29866	C	MINUSINSK	USSR
60522	C	MAGHNIA	ALGERIA	12772	C	MISKOLC	HUNGARY
61096	C	MAINE-SOROA	NIGER	72773	C	MISSOULA/JOHNSON-BELL F., MT.	USA
67073	C	MAINTIRANO	MADAGASCAR	47585	C	MIYAKO	JAPAN
67027	C	MAJUNGA	MADAGASCAR	47927	C	MIYAKOJIMA	JAPAN
91376	C	MAJURO/MARSHALL IS. INTL	USA	47830	C	MIYAZAKI	JAPAN
41030	C	MAKKAH	SAUDI ARABIA	64565	C	MOANDA	GABON
64456	C	MAKOUA	CONGO	72223	C	MOBILE/BATES FIELD, AL.	USA
48665	C	MALACCA	MALAYSIA	30673	C	MOGOKA	USSR
03980	C	MALIN HEAD	IRELAND	47165	C	MOKPO	REP KOREA
63799	C	MALINDI	KENYA	72544	C	MOLINE/QUAD CITY, IL.	USA
67143	C	MANANJARY	MADAGASCAR	94044	C	MOMOTE M.O.	PAPUA N GUINEA
82331	C	MANAUS	BRAZIL	72349	T	MONETT, MO.	USA
82332	T	MANAUS (AEROPORTO)	BRAZIL	67633	C	MONGU	ZAMBIA
03334	C	MANCHESTER AIRPORT	U KINGDOM	78388	C	MONTEGO BAY/SANGSTER	JAMAICA
48042	C	MANDALAY	BURMA	76393	C	MONTERREY, N.L.	MEXICO
44341	C	MANDALGOVI	MONGOLIA	72226	C	MONTGOMERY/DANNELLY, AL.	USA
65352	C	MANGO	TOGO	71627	C	MONTREAL/DORVAL INTL, QUE.	CANADA
98429	C	MANILA INTL AIRPORT	PHILIPPINES	71836	C	MOOSONEE, ONT.	CANADA
71722	C	MANIWAKI, QUE.	CANADA	61265	C	MOPTI	MALI

# STATION LIST RECENT DATA

94527	CT	MOREE	AUSTRALIA	72556	C	NORFOLK/KARL STEFAN, NE.	USA
76665	C	MORELIA, MICH.	MEXICO	71043	C	NORMAN WELLS, N.W.T.	CANADA
27612	CT	MOSKVA	USSR	71731	C	NORTH BAY, ONT.	CANADA
60457	C	MOSTAGANEM	ALGERIA	72562	CT	NORTH PLATTE/LEE BIRD, NE.	USA
64550	C	MOUILA	GABON	61415	C	NOUADHIBOU	MAURITANIA
71072	C	MOULD BAY A, N.W.T.	CANADA	61442	C	NOUAKCHOTT	MAURITANIA
64705	C	MOUNDOU	CHAD	91592	CT	NOUMEA (INLE-CALEDONIE)	N CALEDONIA
64402	C	MOYONDZI	CONGO	10763	C	NUERNBERG	GERMANY, FED REP
63619	C	MOYALE	KENYA	84132	C	NUEVO ROCAFUERTE	ECUADOR
94821	CT	MT GAMBIER AIRPORT	AUSTRALIA	64659	C	ODO	CENTRAL AFRICAN REP
94332	CT	MT ISA AIRPORT	AUSTRALIA	33837	CT	ODESSA	USSR
63971	C	MTWARA	U REP TANZANIA	31088	CT	OHOTSK	USSR
10868	T	MUENCHEN-OBERSCHLEISHEIM	GERMANY, FED REP	47815	C	OITA	JAPAN
10866	C	MUENCHEN-RIEM	GERMANY, FED REP	24688	C	OJMJAKON	USSR
17292	C	MUGLA	TURKEY	72353	CT	OKLAHOMA CITY/W.R.WORLD, OK.	USA
42147	C	MUKTESWAR KUMAON	INDIA	24125	CT	OLENEK	USSR
41675	CT	MULTAN	PAKISTAN	72792	C	OLYMPIA, WA.	USA
08430	T	MURCIA	SPAIN	47655	C	OMAEZAKI	JAPAN
44231	C	MUREN	MONGOLIA	72553	C	OMAHA, NE.	USA
22113	CT	MURMANSK	USSR	28698	CT	OMSK	USSR
72636	C	MUSKEGON/COUNTY, MI.	USA	87016	C	ORAN AERO	ARGENTINA
63756	C	MWANZA	U REP TANZANIA	60490	C	ORAN/ES SENIA	ALGERIA
23146	CT	MYS KAMENNYJ	USSR	35121	CT	ORENBURG	USSR
25173	CT	MYS SMIDTA	USSR	01241	T	ORLAND	NORWAY
25399	C	MYS UELEN	USSR	01241	C	ORLAND III	NORWAY
64654	C	N'DELE	CENTRAL AFRICAN REP	72205	C	ORLANDO/JETPORT/ FL.	USA
61049	C	N'GUIGMI	NIGER	85242	C	ORURO	BOLIVIA
72340	C	N. LITTLE ROCK/MUN.APRT., AR.	USA	47772	C	OSAKA	JAPAN
47817	C	NAGASAKI	JAPAN	01384	CT	OSLO/GARDERMOEN	NORWAY
47636	C	NAGOYA	JAPAN	02226	C	OSTERSUND/FROSON	SWEDEN
42867	CT	NAGPUR SONEGAON	INDIA	11782	C	OSTRAVA/MOSNOV	CZECHOSLOVAKIA
47936	CT	NAHA	JAPAN	21965	CT	OSTROV CETYREH-STOLBOVOJ	USSR
63741	T	NAIROBI/DAGORETTI	KENYA	20674	CT	OSTROV DIKSON	USSR
63740	C	NAIROBI/KENYATTA AIRPORT	KENYA	21432	CT	OSTROV KOTEL'NYJ	USSR
41128	C	NAJRAN	SAUDI ARABIA	20069	C	OSTROV VIZE	USSR
48431	C	NAKHON RATCHASIMA	THAILAND	65503	C	OUAGADOUGOU	BURKINA FASO
48400	C	NAKHON SAWAN	THAILAND	65502	C	OUAHIGOUYA	BURKINA FASO
67237	C	NAMPULA	MOZAMBIQUE	60265	C	OUARAZZATE	MOROCCO
58606	C	NANCHANG	CHINA	64458	C	OUESSO	CONGO
07180	CT	NANCY/ESSEY	FRANCE	02875	C	OLULU	FINLAND
91680	CT	NANDI	FIJI	91765	CT	PAGO PAGO/INT. AIRPORT	USA
59431	C	NANNING	CHINA	48955	C	PAKSE	LAO PDR
07222	C	NANTES	FRANCE	96221	C	PALEMBANG/TALANGBETUTU	INDONESIA
23205	CT	NAR JAN-MAR	USSR	08306	C	PALMA DE MALLORCA/SON SAN J.	SPAIN
61233	C	NARA	MALI	40061	C	PALMYRA	SYRIAN ARAB REP
04270	T	NARSSARSSUAQ	DENMARK	97072	C	PALU/MUTIARA	INDONESIA
72327	CT	NASHVILLE/OLD HICKORY, TN.	USA	43363	C	PAMBAN	INDIA
78073	C	NASSAU AIRPORT	BAHAMAS	43285	T	PANAMBUR	INDIA
65319	C	NATITINGOU	BENIN	41739	C	PANJGUR	PAKISTAN
91683	C	NAUSORI	FIJI	41560	C	PARACHINAR	PAKISTAN
47909	C	NAZE	JAPAN	65330	C	PARAKOU	BENIN
47909	T	NAZE/FUNCHATOGUE	JAPAN	87374	C	PARANA AERO	ARGENTINA
64700	C	NDJAMENA	CHAD	37150	C	PARIS/LE BOURGET	FRANCE
80315	C	NEIVA/LA MANGUITA	COLOMBIA	87814	C	PASO DE INDIOS	ARGENTINA
61497	C	NEMA	MAURITANIA	87289	C	PASO DE LOS LIBRES AERO	ARGENTINA
47420	CT	NEMURO	JAPAN	86460	C	PASO DE LOS TOROS	URUGUAY
87715	CT	NEUQUEN AERO	ARGENTINA	80342	C	PASTO/ANTONIO NARINO	COLOMBIA
42182	CT	NEW DELHI/SAFDARJUNG	INDIA	06610	T	PAYERNE	SWITZ. LIECH.
72231	C	NEW ORLEANS, LA	USA	12942	C	PECS	HUNGARY
93308	C	NEW PLYMOUTH AERODROME	N ZEALAND	86097	C	PEDRO JUAN CABALLERO	PARAGUAY
72503	C	NEW YORK/LA GUARDIA, NY.	USA	87544	C	PEHUATO AERO	ARGENTINA
64870	C	NGAOUNDERE	REP CAMEROON	91554	C	PEKOJA AIRPORT/ESPIRITU-SANTO	Vanuatu
61052	C	NIAMEY-AERO	NIGER	67215	C	PEMBA	MOZAMBIQUE
07690	C	NICE	FRANCE	48601	CT	PENANG/BAYAN LEPAS	MALAYSIA
47604	C	NIIGATA	JAPAN	72688	C	PENDLETON, OR.	USA
02942	C	NIINISALO	FINLAND	72532	C	PEORIA/GREATER PEORIA, IL.	USA
32618	C	NIKOL'SKOE (OSTROV BERINGAI	USSR	80210	C	PEREIRA/MATECANA	COLOMBIA
31369	C	NIKOLAEVSK-NA-AMURE	USSR	28225	C	PERM	USSR
07645	CT	NIMES/COURBESSAC	FRANCE	07747	C	PERPIGNAN	FRANCE
61230	C	NIORO DU SAHEL	MALI	94610	CT	PERTH AIRPORT	AUSTRALIA
23724	C	NJAKSIMVOL'	USSR	16230	C	PESCARA	ITALY
61878	C	NJALA	SIERRA LEONE	41530	CT	PESHAWAR	PAKISTAN
70200	CT	NOME, AK.	USA	82983	C	PETROLINA	BRAZIL
04312	C	NORD ADS	DENMARK	32540	CT	PETROPAVLOVSK-KAMCATSKIJ	USSR
94996	CT	NORFOLK ISLAND AIRPORT	AUSTRALIA	72408	C	PHILADELPHIA/INTL, PA.	USA
72308	C	NORFOLK/INTL, VA.	USA	48378	C	PHITSANULOK	THAILAND

# STATION LIST RECENT DATA

72278 C	PHOENIX/SKY HARBOR INTL, AZ. USA		67283 C	QUELIMANE	MOZAMBIQUE
78970 T	PIARCO INTL AIRPORT, TRINIDAD TRINIDAD TOBAGO		41660 C	QUETTA AIRPORT	PAKISTAN
84140 C	PICHILINGUE	ECUADOR	80144 C	QUIBDO/EL CARANO	COLOMBIA
68174 CT	PIETERSBURG	SOUTH AFRICA	72797 CT	QUILLAYUTE, WA.	USA
87679 C	PIGUE AERO	ARGENTINA	82586 C	QUIXERAMOBIM	BRAZIL
86255 C	PILAR	PARAGUAY	94085 C	RABAUL M.O.	PAPUA N GUINEA
87349 C	PILAR OBSERVATORIO	ARGENTINA	40362 C	RAFHA	SAUDI ARABIA
16158 C	PISA/S. GIUSTO	ITALY	72306 C	RALEIGH/RALEIGH-DURHAM, NC.	USA
84691 C	PISCO	PERU	93997 C	RAOUL ISLAND, KERMADEC IS.	N ZEALAND
72520 C	PITTSBURGH/GREATER PITT., PA. USA		91958 CT	RAPA	FRENCH POLY.
84401 C	PIURA	PERU	72662 C	RAPID CITY/REG., SD.	USA
37050 C	PJATIGORSK	USSR	91843 CT	RAROTONGA	N ZEALAND
61990 C	PLAISANCE (MAURITIUS)	MAURITIUS	22602 C	REBOLY	USSR
03827 C	PLYMOUTH/MOUNT BATTEN	U KINGDOM	82900 C	RECIFE (CURADO)	BRAZIL
72578 C	POCATELLO/NUM., ID.	USA	87270 C	RECONQUISTA AERO	ARGENTINA
61612 C	PODOR	SENEGAL	71863 C	REGINA, SASK.	CANADA
47138 T	POHANG	REP KOREA	72488 C	RENO/INTL, NV.	USA
20046 TC	POLAR GMO IM.E.T. KRENKELJA	USSR	87155 C	RESISTENCIA AERO.	ARGENTINA
91348 C	PONAPE, CAROLINE ISLANDS.	USA	71924 C	RESOLUTE, N.W.T.	CANADA
08513 C	PONTA DELGADA (ACORES)	PORTUGAL	04030 C	REYKJAVIK	ICELAND
83702 C	PONTA PORA	BRAZIL	85043 C	RIBERALTA	BOLIVIA
43063 C	POONA	INDIA	72401 C	RICHMOND/BYRD, VA.	USA
11952 T	POPRAD/GANOVCE	CZECHOSLOVAKIA	91948 C	RIKITEA	FRENCH POLY.
11934 C	POPRAD/TATRY	CZECHOSLOVAKIA	82915 C	RIO BRANCO	BRAZIL
80421 C	PORLAMAR(AP INTL DEL CARIBE)	VENEZUELA	87736 C	RIO COLORADO	ARGENTINA
43333 CT	PORT BLAIR	INDIA	87453 C	RIO CUARTO AERO	ARGENTINA
68842 CT	PORT ELIZABETH	SOUTH AFRICA	83743 C	RIO DE JANEIRO	BRAZIL
71109 C	PORT HARDY, B.C.	CANADA	87925 C	RIO GALLEGOS AERO	ARGENTINA
94312 CT	PORT HEDLAND AIRPORT	AUSTRALIA	87934 C	RIO GRANDE B.A.	ARGENTINA
94035 C	PORT MORESBY M.O.	PAPUA N GUINEA	80112 C	RIONEGRO/J.M.CORDOVA	COLOMBIA
78437 C	PORT-AU-PRINCE (DAMIEN)	HAITI	87065 C	RIVADAVIA	ARGENTINA
61998 CT	PORT-AUX-FRANCAIS(ILES KER.)	FRANCE	40438 C	RIYADH	SAUDI ARABIA
64501 C	PORT-GENTIL	GABON	72411 C	ROANOKE/MUN., VA.	USA
72606 C	PORTLAND/INTL JET PORT, ME.	USA	65660 C	ROBERTS FIELD	LIBERIA
72698 C	PORTLAND/INTL, OR.	USA	85268 C	ROBORE	BOLIVIA
83967 C	PORTO ALEGRE	BRAZIL	86565 C	ROCHA	URUGUAY
83971 T	PORTO ALEGRE (AEROPORTO)	BRAZIL	72644 C	ROCHESTER/MUN., MN.	USA
82825 C	PORTO VELHO	BRAZIL	72529 C	ROCHESTER/R-MONROE CTY., NY.	USA
84135 C	PORTO VIEJO-GRANJA	ECUADOR	61988 C	RODRIGUES	MAURITIUS
08546 C	PORTO/SERRA DO PILAR	PORTUGAL	16242 C	ROMA/FIUMICINO	ITALY
87178 C	POSADAS AERO.	ARGENTINA	06190 C	RONNE	DENMARK & FAROE IS.
09379 C	POTSDAM	GERMAN DEM REP	87480 C	ROSARIO AERO	ARGENTINA
12330 CT	POZNAN	POLAND	61489 C	ROSSO	MAURITANIA
48500 C	PRACHUAP KHIRIKHAN	THAILAND	34731 CT	ROSTOV-NA-DONU	USSR
11520 CT	PRAHA-LIBUS	CZECHOSLOVAKIA	89062 C	ROTHERA POINT	U KINGDOM
11518 C	PRAHA/RUZYNE	CZECHOSLOVAKIA	45005 C	ROYAL OBSERVATORY	HONG KONG
16245 T	PRATICA DI MARE	ITALY	51777 C	RUOQIANG	CHINA
87149 C	PRES. ROQUE SAENZ PENA AERO	ARGENTINA	85141 C	RURRENABAQUE	BOLIVIA
68262 C	PRETORIA	SOUTH AFRICA	89001 T	S.A.N.A.E. STATION	SOUTH AFRICA
68263 T	PRETORIA (IRENE)	SOUTH AFRICA	82106 C	S.GABRIEL DO CACHOEIRA(UAU.)	BRAZIL
71896 C	PRINCE GEORGE, B.C.	CANADA	71600 C	SABLE ISLAND, N.S.	CANADA
04390 C	PRINS CHRISTIAN SUND	DENMARK	72483 C	SACRAMENTO/EXECUTIVE, CA.	USA
72507 C	PROVIDENCE/GREEN STATE, RI.	USA	06680 C	SAENTIS	SWITZ. LIECH.
80002 C	PROVIDENCIA (ISLA)	COLOMBIA	42671 C	SAGAR	INDIA
12695 C	PRZEMYSL	POLAND	44354 C	SAINSHAND	MONGOLIA
80412 C	PTO. CABELO, B.N.	VENEZUELA	61980 C	SAINT-DENIS/GILLOT (REUNION)	FRANCE
84515 C	PUCALLPA	PERU	61600 C	SAINT-LOUIS	SENEGAL
80457 C	PUERTO AYACUCHO	VENEZUELA	71805 C	SAINT-PIERRE	ST. PIERRE MIGUELON
80139 C	PUERTO CARRENO	COLOMBIA	08594 T	SAL	CAPE VERDE
86086 C	PUERTO CASADO	PARAGUAY	41316 C	SALALAH	OMAN
87896 C	PUERTO DESEADO AERO	ARGENTINA	23330 CT	SALEHARD	USSR
78711 C	PUERTO LEMPIRA	HONDURAS	76833 C	SALINA CRUZ, OAX.	MEXICO
78767 C	PUERTO LIMON	COSTA RICA	72572 C	SALT LAKE CITY/INTL, UT.	USA
84658 C	PUERTO MALDONADO	PERU	87047 C	SALTA AERO	ARGENTINA
85799 C	PUERTO MONTT	CHILE	86360 C	SALTO	URUGUAY
78457 C	PUERTO PLATA	DOMINICAN REP	83229 C	SALVADOR	BRAZIL
86248 C	PUERTO PRESIDENTE STROESSNER	PARAGUAY	11150 C	SALZBURG-FLUGHAFEN	AUSTRIA
85289 C	PUERTO SUAREZ	BOLIVIA	35925 C	SAM	USSR
85934 C	PUNTA ARENAS	CHILE	17030 CT	SAMSUN	TURKEY
87596 C	PUNTA INDO B.A.	ARGENTINA	61277 C	SAN	MALI
78760 C	PUNTARENAS	COSTA RICA	80001 CT	SAN ANDRES (ISLA)	COLOMBIA
47159 C	PUSAN	REP KOREA	72263 C	SAN ANGELO/MATHIS, TX.	USA
47058 CT	PYONGYANG	DPR KOREA	80447 C	SAN ANTONIO DEL TACHIRA	VENEZUELA
56137 C	QAMDO	CHINA	87784 C	SAN ANTONIO OESTE AERO	ARGENTINA
54857 C	QINGDAO	CHINA	72253 C	SAN ANTONIO/INTL, TX.	USA
50745 C	QIQIHAER	CHINA	84008 C	SAN CRISTOBAL (GALAPAGOS)	ECUADOR

# STATION LIST RECENT DATA

72290	C	SAN DIEGO/LINDBERGH, CA.	USA	17090	C	SIVAS	TURKEY
72290	T	SAN DIEGO/MONTGOMERY FLD, CA.	USA	60355	C	SKIKDA	ALGERIA
80450	C	SAN FERNANDO DE APURE	VENEZUELA	13586	C	SKOPJE-PETROVAC	YUGOSLAVIA
72494	C	SAN FRANCISCO/INTL, CA.	USA	11903	C	SLIAC	CZECHOSLOVAKIA
85207	C	SAN IGNACIO DE VELASCO	BOLIVIA	02836	CT	SODANKyla	FINLAND
85104	C	SAN JOAQUIN	BOLIVIA	15614	CT	SOFIA (OBSERV.)	BULGARIA
85247	C	SAN JOSE	BOLIVIA	65361	C	SOKODE	TOGO
84721	C	SAN JUAN	PERU	63962	C	SONGEA	U REP TANZANIA
87311	C	SAN JUAN AERO	ARGENTINA	48568	CT	SONGKHLA	THAILAND
86260	C	SAN JUAN BAUTISTA MISIONES	PARAGUAY	11146	C	SONNBLICK	AUSTRIA
78526	C	SAN JUAN/INTL, PUERTO RICO	PUERTO RICO US POSS	16746	C	SOUDA	GREECE
87909	C	SAN JULIAN AERO	ARGENTINA	72535	C	SOUTH BEND/ST. JOSEPH CO., IN.	USA
87436	C	SAN LUIS AERO	ARGENTINA	13334	C	SPLIT/MARJAN	YUGOSLAVIA
87509	C	SAN RAFAEL AERO	ARGENTINA	72785	CT	SPOKANE/INTL, WA.	USA
71101	C	SANDSPIT, B.C.	CANADA	72439	C	SPRINGFIELD/CAPITAL, IL.	USA
85123	C	SANTA ANA	BOLIVIA	72440	C	SPRINGFIELD/MUN., MO.	USA
85245	C	SANTA CRUZ	BOLIVIA	42027	CT	SRINAGAR	INDIA
87912	C	SANTA CRUZ AERO	ARGENTINA	61986	C	ST. BRANDON (ST. RAPHAEL)	MAURITIUS
60020	C	SANTA CRUZ DE TENERIFE	SPAIN	72655	T	ST. CLOUD/WHITNEY, MN.	USA
80462	C	SANTA ELENA DE UAIREN	VENEZUELA	61901	CT	ST. HELENA IS.	U KINGDOM
08515	C	SANTA MARIA (ACORES)	PORTUGAL	72434	C	ST. LOUIS/LAMBERT, ST., MO.	USA
72394	C	SANTA MARIA/PUBLIC, CA.	USA	70308	C	ST. PAUL, AK.	USA
80009	C	SANTA MARTA/SIMON BOLIVAR	COLOMBIA	11028	C	ST. POELTEN	AUSTRIA
87623	C	SANTA ROSA AERO	ARGENTINA	83997	C	ST. VITORIA DO PALMAR	BRAZIL
78717	C	SANTA ROSA DE COPAN	HONDURAS	01415	CT	STAVANGER/SOLA	NORWAY
87129	C	SANTIAGO DEL ESTERO AERO.	ARGENTINA	71815	C	STEPHENVILLE, NFLD.	CANADA
78486	C	SANTO DOMINGO	DOMINICAN REP	80475	C	STO. DOMINGO (B.A.)	VENEZUELA
82280	C	SAO LUIZ	BRAZIL	02464	C	STOCKHOLM/BROMMA	SWEDEN
83781	C	SAO PAULO	BRAZIL	02465	T	STOCKHOLM/BROMMA	SWEDEN
83780	T	SAO PAULO (AEROPORTO)	BRAZIL	03026	CT	STORNOWAY	U KINGDOM
47412	CT	SAPPORO	JAPAN	07190	C	STRASBOURG	FRANCE
13354	C	SARAJEVO	YUGOSLAVIA	10739	CT	STUTTGART/SCHNARRENBERG	GERMANY, FED REP
34172	CT	SARATOV	USSR	85283	C	SUCRE	BOLIVIA
41594	T	SARGODHA	PAKISTAN	41062	C	SULAYEL	SAUDI ARABIA
64750	C	SARH	CHAD	15360	C	SULINA	ROMANIA
72734	C	SAULT STE. MARIE, MI.	USA	72429	T	SULPHUR GROVE, OH.	USA
72207	C	SAVANNAH/MUNICIPAL, GA.	USA	02365	T	SUNDSVALL-HARNOSAND FLYGPLAT	SWEDEN
65335	C	SAVE	BENIN	24738	C	SUNTAR	USSR
48938	C	SAYABOURY	LAO PDR	41268	C	SUR	OMAN
10035	CT	SCHLESWIG	GERMANY, FED REP.	98653	C	SURIGAO	PHILIPPINES
04339	T	SCORESBYSUND	DENMARK	01008	C	SVALBARD LUFTHAVN	NORWAY
72793	C	SEATTLE/S.-TACOMA, WA.	USA	28440	CT	SVERDLOVSK	USSR
62124	C	SEBHA	LIBYAN ARAB JAMAHIRI	94767	C	SYDNEY AIRPORT	AUSTRALIA
41256	CT	SEEB, INTERNATIONAL AIRPORT	OMAN	71707	C	SYDNEY, N.S.	CANADA
61272	C	SEGOU	MALI	23804	CT	SYKTYVKAR	USSR
25703	CT	SEJM CAN	USSR	72519	C	SYRACUSE/HANCOCK, NY.	USA
36177	C	SEMIPALATINSK	USSR	12205	C	SZCZECIN	POLAND
47590	CT	SENDAI	JAPAN	12982	CT	SZEGED	HUNGARY
62762	C	SENNAR	SUDAN	65380	C	TABLIGBO	TOGO
48948	C	SENO	LAO PDR	40375	CT	TABUK	SAUDI ARABIA
71811	C	SEPT-ILES, QUE.	CANADA	98550	C	TACLOBAN	PHILIPPINES
61976	C	SERGE-FROLLOW (ILE TROMELIN)	FRANCE	84782	C	TACNA	PERU
60445	C	SETIF	ALGERIA	98644	C	TAGBILARAN	PHILIPPINES
08390	C	SEVILLA/TABLADA	SPAIN	83235	C	TAGUATINGA	BRAZIL
63980	C	SEYCHELLES INTL AIRPORT	SEYCHELLES	91938	CT	TAHITI-FAAA	FRENCH POLY.
63985	T	SEYCHELLES INTL APIRAW, STN1	SEYCHELLES	61043	C	TAHOUA	NIGER
58367	CT	SHANGHAI	CHINA	41036	C	TAIF	SAUDI ARABIA
03962	C	SHANNON AIRPORT	IRELAND	91943	C	TAKAROA	FRENCH POLY.
59316	C	SHANTOU	CHINA	84390	C	TALARO	PERU
41136	C	SHARURAH	SAUDI ARABIA	72214	C	TALLAHASSEE/MUN., FL.	USA
71601	C	SHEARWATER, N.S.	CANADA	26038	C	TALLIN	USSR
70414	T	SHEMYA AFB, AK.	USA	60680	CT	TAMANRASSET	ALGERIA
54342	C	SHENYANG	CHINA	67095	C	TAMATAVE	MADAGASCAR
72666	C	SHERIDAN/COUNTY, WY.	USA	61687	C	TAMBACOUNDA	SENEGAL
47898	C	SHIMIZU/ASHIZURI	JAPAN	38413	C	TAMDY	USSR
47778	CT	SHIONOMISAKI	JAPAN	72211	C	TAMPA/INTL, FL.	USA
72248	C	SHREVEPORT/REG., LA.	USA	76548	C	TAMPICO, TAMPS	MEXICO
64405	C	SIBITI	CONGO	87645	C	TANDIL AERO	ARGENTINA
15260	C	SIBIU	ROMANIA	96509	C	TARAKAN/JUWATA	INDONESIA
61297	C	SIKASSO	MALI	84455	C	TARAPOTO	PERU
33946	C	SIMFEROPOL'	USSR	91610	CT	TARAWA	N ZEALAND
32195	C	SIMUSIR	USSR	23552	C	TARKO-SALE	USSR
48698	CT	SINGAPORE/CHANGI AIRPORT	SINGAPORE	38457	CT	TASKENT	USSR
47035	C	SINUJU	DPR KOREA	47646	T	TATENO	JAPAN
72557	C	SIOUX CITY/MUN., IA.	USA	96481	CT	TAWAU	MALAYSIA
72651	C	SIOUX FALLS/FOSS FIELD, SD.	USA	37549	CT	TBILISI	USSR

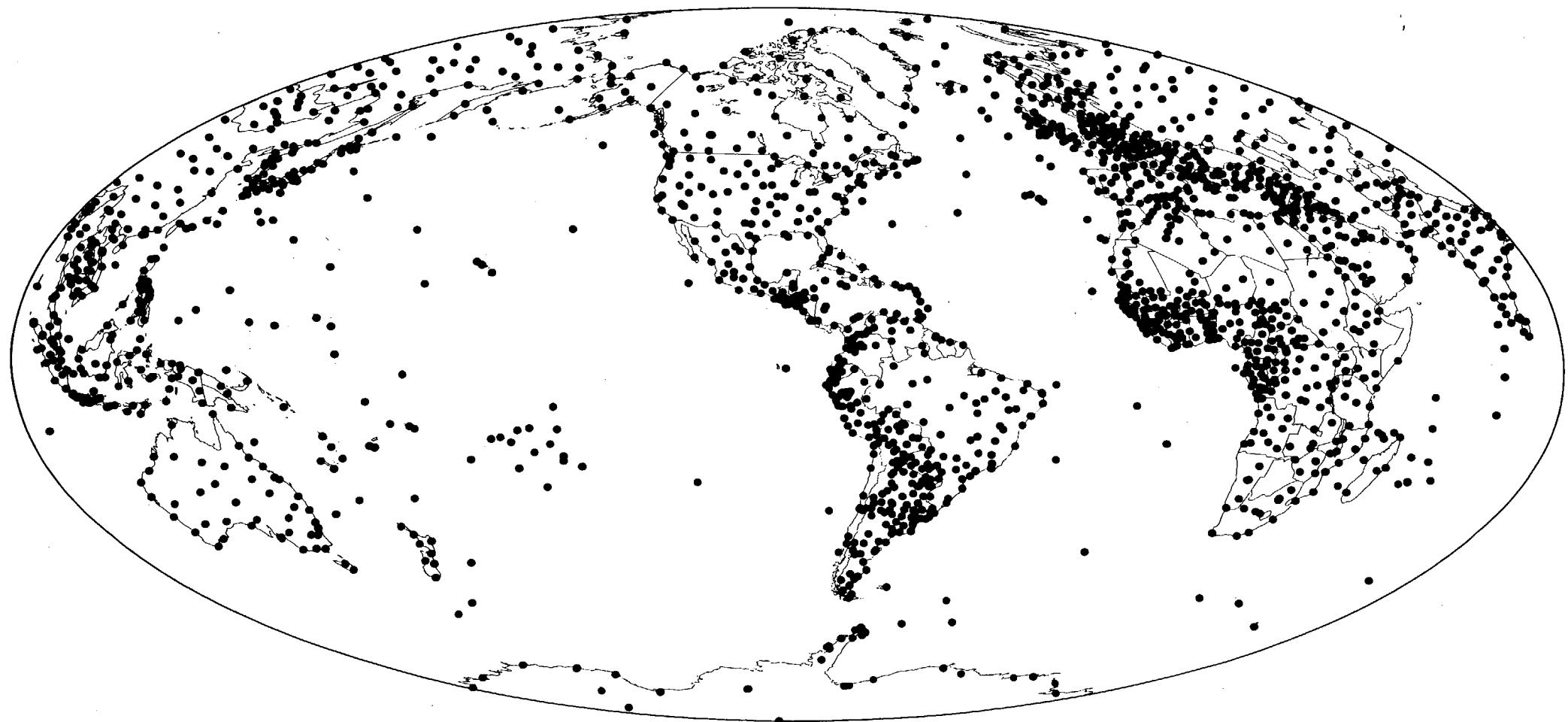
# STATION LIST RECENT DATA

78720	C	TEGUCIGALPA	HONDURAS	30635	C	UST'-BARGUZIN	USSR
78706	C	TELA	HONDURAS	25325	C	UST'-OLOJ	USSR
96295	C	TELUKBETUNG/BERANTY	INDONESIA	02911	C	VAASA	FINLAND
56739	C	TENGCHONG	CHINA	85766	C	VALDIVIA	CHILE
89053	C	TENIENTE JUBANY E.C.	ARGENTINA	03953	C	VALENTIA OBSERVATORY	IRELAND
94238	C	TENNANT CREEK AIRPORT	AUSTRALIA	80426	C	VALERA	VENEZUELA
83492	C	TEOFILO OTONI	BRAZIL	08141	C	VALLADOLID	SPAIN
82578	C	TEREZINA	BRAZIL	03302	C	VALLEY	U KINGDOM
61202	C	TESSALIT	MALI	71892	C	VANCOUVER INTL AIRPORT, B.C.	CANADA
67261	C	TETE	MOZAMBIQUE	01098	C	VARDO	NORWAY
71867	C	THE PAS, MAN.	CANADA	15552	C	VARNA	BULGARIA
16622	C	THESSALONIKI/MIKRA	GREECE	26477	C	VELIKIE LUKI	USSR
06011	CT	THORSHAVN	DENMARK & FAROE IS.	16105	C	VENEZIA/TESSERA	ITALY
41314	C	THUMRAIT	OMAN	83264	C	VERA (GLEBA CELESTE)	BRAZIL
94175	C	THURSDAY ISLAND	AUSTRALIA	42909	C	VERAVAL	INDIA
60511	C	TIARET	ALGERIA	24266	CT	VERHOJANSK	USSR
61450	C	TIDJIKJA	MAURITANIA	16090	C	VERONA/VILLAFRANCA	ITALY
61036	C	TILLABERY	NIGER	72255	C	VICTORIA/VICTORIA REG., TX.	USA
60607	C	TIMIMOUN	ALGERIA	87791	C	VIEDMA AERO	ARGENTINA
15247	C	TIMISOARA	ROMANIA	48940	C	VIENTIANE	LAO PDR
60656	C	TINDOUF	ALGERIA	83208	C	VILHENA	BRAZIL
84534	C	TINGO MARIA	PERU	24641	C	VILJUJSK	USSR
03100	C	TIREE	U KINGDOM	60096	C	VILLA CISNEROS	WESTERN SAHARA
13462	C	TITOGRAD/GOLUBOVCI	YUGOSLAVIA	87328	C	VILLA DOLORES AERO	ARGENTINA
60531	C	TLEMCEM (ZENATA)	ALGERIA	87448	C	VILLA REYNOLDS AERO	ARGENTINA
28275	C	TOBOL'SK	USSR	11212	C	VILLACHERALPE	AUSTRIA
47662	C	TOKYO	JAPAN	86233	C	VILLARRICA	PARAGUAY
72536	C	TOLEDO/EXPRESS, OH.	USA	80234	C	VILLAVICENCIO/VANGUARDIA	COLOMBIA
61223	CT	TOMBOUCTOU	MALI	48845	C	VINH	VIET NAM
72456	C	TOPEKA/MUN., KS.	USA	02590	C	VISBY FLYGPLATS	SWEDEN
71624	C	TORONTO INTL AIRPORT, ONT.	CANADA	43149	C	VISHAKHAPATNAM	INDIA
76382	C	TORREON, COAH.	MEXICO	83648	C	VITORIA	BRAZIL
60555	C	TOUGGOURT	ALGERIA	31960	CT	VLADIVOSTOK	USSR
07630	C	TOULOUSE/BLAGNAC	FRANCE	27037	CT	VOLOGDA	USSR
94294	CT	TOWNSVILLE AIRPORT	AUSTRALIA	34122	C	VORONEZ	USSR
16429	CT	TRAPANI/BIRGI	ITALY	22837	C	VYTEGRA	USSR
07145	T	TRAPPES	FRANCE	72256	C	WACO, MADISON-COOPER, TX.	USA
87828	C	TRELEW AERO	ARGENTINA	03377	C	WADDINGTON	U KINGDOM
87688	C	TRES ARROYOS	ARGENTINA	94910	CT	WAGGA AIRPORT	AUSTRALIA
83618	C	TRES LAGOAS	BRAZIL	97340	C	WAINGAPU/MAU HAU	INDONESIA
16110	C	TRIESTE	ITALY	47600	CT	WAJIMA	JAPAN
43418	C	TRINCOMALEE	SRI LANKA	91245	C	WAKE ISLAND AIRFIELD, WAKE I	USA
85154	C	TRINIDAD	BOLIVIA	47401	CT	WAKKANAI	JAPAN
62010	C	TRIPOLI INTL AIRPORT	LIBYAN ARAB JAMAHIRI	97686	C	WAMENA/WAMENA	INDONESIA
43371	CT	TRIVANDRUM	INDIA	09170	C	WARNEMUENDE	GERMAN DEM REP
01025	C	TROMSO/LANGNES	NORWAY	12375	C	WARSZAWA-OKECIE	POLAND
84501	C	TRUJILLO	PERU	72405	C	WASHINGTON/NAT., VA.	USA
91334	CT	TRUK, CAROLINE IS.	USA	72403	T	WASHINGTON/STERLING, VA.	USA
91954	C	TUBUAI	FRENCH POLY.	40400	C	WEJH	SAUDI ARABIA
72274	C	TUCSON/INTL, AZ.	USA	72203	C	WEST PALM BEACH/INTL, FL.	USA
87121	C	TUCUMAN AERO	ARGENTINA	71964	C	WHITEHORSE, Y.T.	CANADA
98233	C	TUGUEGARAO	PHILIPPINES	72450	C	WICHITA, KS.	USA
67161	C	TULEAR	MADAGASCAR	11035	CT	WIEN/HOHE WARTE	AUSTRIA
72356	C	TULSA/INTL, OK.	USA	72513	C	WILKES-BARRE-SCRANTON, PA.	USA
80337	C	TUMACO/EL MIRA	COLOMBIA	94776	CT	WILLIAMSTOWN AERODROME	AUSTRALIA
84370	C	TUMBES	PERU	94299	CT	WILLIS ISLAND	AUSTRALIA
80453	C	TUMEREMO	VENEZUELA	72767	C	WILLISTON/SLOULIN FIELD, ND.	USA
60715	C	TUNIS CARTHAGE	TUNISIA	72583	C	WINNEMUCCA/MUN., NV.	USA
24507	CT	TURA	USSR	71852	C	WINNIPEG INTL AIRPORT, MAN.	CANADA
40356	C	TURAIF	SAUDI ARABIA	12497	C	WLODAWA	POLAND
35358	C	TURGAJ	USSR	47055	C	WONSAN	DPR KOREA
02972	C	TURKU	FINLAND	94659	CT	WOOMERA AERODROME	AUSTRALIA
23472	CT	TURUHANSK	USSR	12425	T	WROCLAW I	POLAND
48407	T	UBON RATCHATHANI	THAILAND	12424	C	WROCLAW II	POLAND
06447	C	UCCLE	BELGIUM	57036	C	XI'AN	CHINA
16045	C	UDINE/RIVOLTO	ITALY	56571	C	XICHANG	CHINA
48354	C	UDON THANI	THAILAND	85365	C	YACUIBA	BOLIVIA
44292	C	ULAN-BATOR	MONGOLIA	72781	C	YAKIMA/YAKIMA AIR TERM., WA.	USA
44212	C	ULAN-GOM	MONGOLIA	70361	CT	YAKUTAT, AK.	USA
44214	C	ULGI	MONGOLIA	64661	C	YALINGA	CENTRAL AFRICAN REP
44272	C	ULIASTAI	MONGOLIA	54292	C	YANJI	CHINA
04209	C	UPERNAVIK AWS	DENMARK	64950	C	YAOUNDE	REP CAMEROON
68424	CT	UPINGTON	SOUTH AFRICA	91413	C	YAP, CAROLINE IS.	USA
47426	C	URAKAWA	JAPAN	40439	C	YENBO	SAUDI ARABIA
17270	C	URFA	TURKEY	57461	C	YICHANG	CHINA
51463	CT	URUMQI	CHINA	53614	C	YINCHUAN	CHINA

## STATION LIST RECENT DATA

51431	C	YINING	CHINA
47744	CT	YONAGO	JAPAN
72525	C	YOUNGSTOWN, OH.	USA
84425	C	YURIMAGUAS	PERU
13129	C	ZAGREB/GRIC	YUGOSLAVIA
98836	C	ZAMBOANGA	PHILIPPINES
81225	C	ZANDERIJ	SURINAME
08160	C	ZARAGOZA/AEROPUERTO	SPAIN
40986	C	ZARANJ	AFGHANISTAN
57083	C	ZHENGZHOU	CHINA
57745	C	ZHI JIANG	CHINA
41620	C	ZHOB	PAKISTAN
61695	C	ZIGUINCHOR	SENEGAL
61090	C	ZINDER	NIGER
61404	C	ZOUERATE	MAURITANIA
10961	C	ZUGSPITZE	GERMANY, FED REP
06660	C	ZURICH (TOWN/VILLE)	SWITZ. LIECH.
25400	C	ZYRJANKA	USSR

# **CLIMATIC DATA STATIONS - WORLDWIDE**



COVER: The cover maps are long term means analyzed on a miller cylindrical projection of the world. They were prepared by U. S. National Climatic Data Center personnel from a variety of sources, including data from Monthly Climatic Data for the World and ship reports exchanged under WMO Res. 35 (Cg-IV). Since it was not possible to select all data for the same years of record, maps do not represent a "Standard Normal" period, but are generally representative of conditions during 1950's to mid-1970's. However, some ship data as early as the 1850's and land data from the 1890's to 1950's were used to help fill data gaps. The appropriate month's analysis will be shown in each issue. Since the scale is small, these maps can be used only for generalizations over large areas. If detailed statistics are needed, summaries of finer resolution should be used.

National Climatic Data Center  
January 1989

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